

## 明細書

ドメインを形成するヒト由来のタンパク質またはその用途

## 技術分野

- 5      本発明は、ドメインを形成するヒト由来のタンパク質、それをコードするポリヌクレオチド、そのタンパク質に対する抗体、それらを用いた活性化合物のスクリーニング方法などに関する。

## 背景技術

- 10      近年、ヒトゲノム計画に代表されるさまざまなモデル生物のゲノム塩基配列が次々に解読されている。これらのゲノム配列情報から抽出される遺伝子について、個々の遺伝子にコードされたタンパク質の立体構造を体系的に明らかにし、構造と機能の関係を明確にしようとする“構造ゲノム科学”が、新たな研究分野として急速に立ち上がり、世界各国で大規模なプロジェクトが進行している。
- 15      この構造ゲノム科学において、解析対象となるタンパク質数は10万種類に及ぶとも見られており、その全立体構造の決定を目標とするのは現在の技術レベルでは未だ現実的ではない。

- そこで、まず対象タンパク質を妥当な数に絞り、「代表的な構造」を選ぶことが必要である。網羅的な立体構造解析は、例えばa) 対象とするタンパク質のセット
- 20      として比較的小さいものに特定する、b) 超好熱性古細菌、高度好熱菌、マイコプラズマ等のゲノムサイズの小さい生物種を特定する、或いはc) シグナル伝達や遺伝子発現に関与するタンパク質、疾病関連遺伝子産物タンパク質等、生命現象を特定する等、様々な視点から解析対象を選定したプロジェクトが開始されている。

- このような研究の流れにおいては、最初のステップとして、約1万種類とも推
- 25      測されているファミリー(アミノ酸配列が約30~35%の相同性を有するものをファミリーとして分類)のすべてについて代表的な立体構造を1つ以上決定することを1つの目標としている。ある代表的な立体構造(基本構造)があれば、同じファミリーに属する他のタンパク質の構造も、ホモロジーに基づくモデリングにより類推することが可能となる。

このプロジェクトの中で、機能ドメインの三次元構造のタイプ、又はトポロジー（基本構造：フォールド）に注目し、タンパク質の基本構造単位で機能との相関を解明しようとする研究が注目されている。

複数のドメインを有するタンパク質の場合、機能ドメインがモジュールのように組み合わさってできているため、あるドメインがさまざまなタンパク質のなかに違ったドメインとの組み合わせで現れることがしばしば見られる。また、一次配列上のホモロジーが検出されなくても同じ基本構造をもつことはめずらしくない。従って、基本構造の数はタンパク質のファミリーの数よりもかなり少ないはずであり、それぞれの基本構造が分子機能と関連付けられると期待される。この基本構造の数は、約1万～2万種類と予測されており、このオーダーの解析対象であれば、全対象タンパク質の立体構造を決定することも十分可能になる。

このようにして得られるタンパク質の立体構造と機能に関する情報は、生体機能の解明に新たな知見を与え、医薬品等の開発（例えば、ラショナルドラッグデザインやバーチャルスクリーニングによる開発）を飛躍的に発展させるものであり、産業界においても非常に有益である。

しかしながら、タンパク質の立体構造解析には、多くの時間と労力、費用を要するのが実情である。網羅的且つ体系的な構造解析を目指す構造ゲノム科学研究においては、構造解析のハイスループット化を図ることが重要な課題である。

タンパク質の立体構造解析には主にNMR法およびX線結晶構造解析法が使用されている。

タンパク質をNMRを用いて立体構造解析を行うためには、サンプルの分子量は約20000以下（アミノ酸残基で約200個以下）であることが好ましい。X線解析によって立体構造解析を行う場合にも、結晶作成のためにタンパク質の性状に制限がある。

構造解析に適したタンパク質を得るためにタンパク質をランダムに分割すると、切断する部位が $\beta$ シートや $\alpha$ ヘリックス構造をとるアミノ酸配列中にあると、多くのタンパク質は生理的に意味のある構造が変形したり、ひも状になり構造を取らなかったり、あるいは凝集することになる。このように本来生体内でとる



構造を有しないタンパク質の立体構造を解析しても意味がない。したがって、立体構造の解析に意味のあるドメインを形成するタンパク質を取得することが望まれる。

5 構造解析に適した、ドメインを有するタンパク質（以下、「ドメインを形成するタンパク質」という）を発現させるためには、ドメイン境界の位置に関する情報が必要である。一般に、このドメイン境界はアミノ酸配列の相同性などを手がかりにして予測される。このようにして予測されたドメイン領域のアミノ酸配列に基づいてタンパク質の発現を行っても実際に構造をとる（フォールドする）ドメインを形成するタンパク質が得られる確率は非常に低く、ドメイン発現が構造  
10 解析のボトルネックの1つとなっている。

本発明の対象であるCAP-Gly様ドメインを形成するタンパク質についても、これまでは取得されておらず、またその構造情報も未知であり、これらを創薬等に利用することはできなかった。

## 15 発明の開示

本発明は、このような状況に鑑みてなされたもので、下記のようなタンパク質、その製造方法、それをコードするポリヌクレオチド、そのタンパク質に対する抗体、それらを用いるスクリーニング方法などを提供する。

20 (1) 配列番号1に記載されたアミノ酸配列からなるタンパク質又はその塩。

(2) 配列番号3、5、7のいずれか一つに記載されたアミノ酸配列からなるタンパク質又はそれらの塩。

(3) 配列番号5に記載されたアミノ酸配列のN末端から0個～10個のアミノ酸残基が欠損し、更にC末端から0個～5個のアミノ酸残基が欠損したアミノ酸  
25 配列を有し、アミノ酸残基数が92～106であるタンパク質又はそれらの塩。

(4) (1)、(2)又は(3)に記載のタンパク質のアミノ酸配列において、1若しくは数個のアミノ酸が欠失、置換又は付加されたアミノ酸配列からなり、

(1)、(2)又は(3)に記載のタンパク質と実質的に同一の細胞増殖抑制機能を有するタンパク質又はそれらの塩。

(5) (1) ~ (4) に記載されたタンパク質のいずれか 1 つのタンパク質のアミノ酸配列をコードするポリヌクレオチドを含有するポリヌクレオチド。

(6) 配列番号 2、4、6、8 のいずれか一つに記載された塩基配列を含有する(5) に記載のポリヌクレオチド。

5 (7) (5) 又は(6) に記載のポリヌクレオチドを含有する組換えベクター。

(8) (5) 又は(6) に記載のポリヌクレオチドで形質転換させた形質転換体。

(9) (1) ~ (4) のいずれか一つに記載のタンパク質に対する抗体。

10 (10) (8) に記載の形質転換体を培養し、タンパク質を生成させる工程を含む、(1) ~ (4) のいずれか一つに記載のタンパク質またはそれらの塩の製造方法。

(11) 無細胞タンパク質合成系を用いることを特徴とする(1) ~ (4) のいずれか一つに記載のタンパク質又はそれらの塩の製造方法。

15 (12) (1) ~ (4) のいずれか一つに記載のタンパク質と候補物質とを接触させる工程と、前記タンパク質と候補物質とが相互作用をするかどうかを確認する工程とを含む(1) ~ (4) のいずれか一つに記載のタンパク質またはそれらの塩及び/又は(1) ~ (4) のいずれか一つに記載のタンパク質のアミノ酸配列を含んだ天然に存在するタンパク質又はそれらの塩と相互作用する物質のスクリーニング方法。

20 (13) (9) に記載の抗体を用いた(1) ~ (4) のいずれか一つに記載のタンパク質を含むタンパク質又はそれらの塩の定量方法。

(14) (13) に記載の定量方法を用いた、(1) ~ (4) のいずれか一つに記載のタンパク質を含むタンパク質またはそれらの塩と相互作用をする物質のスクリーニング方法。

25 (15) (1) ~ (4) のいずれか一つに記載のタンパク質を細胞内で発現させる工程と、当該細胞内における遺伝子の発現状態を調べる工程と、を含む、(1) ~ (4) のいずれか一つに記載のタンパク質と関連する遺伝子を特定する方法。

(16) (1) ~ (4) のいずれか一つに記載のタンパク質の立体構造に関する

情報を用いて、前記タンパク質の活性部位を決定する工程と、当該活性部位と相互作用する化合物をコンピュータ上で特定する工程とを含む（１）～（４）のいずれか一つに記載のタンパク質またはそれらの塩及び／又は（１）～（４）のいずれか一つに記載のタンパク質のアミノ酸配列を含んだ天然に存在するタンパク質又はそれらの塩と相互作用する化合物のスクリーニング方法。

（１７）前記タンパク質の立体構造に関する情報が、立体構造座標表１～２０のいずれかに記載の立体構造情報のうちアミノ酸番号８～９８番目のアミノ酸残基からなるタンパク質の立体構造情報である（１６）に記載のスクリーニング方法。

（１８）立体構造座標表１に記載の立体構造情報のうち、(Val26、Lys27、Glu47、Arg67、Lys83、Ser86)のアミノ酸残基に相当する部分の情報を用いる（１７）に記載のスクリーニング方法。

（１９）（１６）～（１８）のいずれか一つに記載されたスクリーニング方法によって、特定された活性部位と相互作用する化合物を候補化合物として用意し、

（１）～（４）のいずれか一つに記載されたタンパク質と候補物質とを接触させる工程と、前記タンパク質と候補物質とが相互作用をするかどうかを確認する工程とを含む（１）～（４）のいずれか一つに記載されたタンパク質またはその塩及び／又は（１）～（４）のいずれか一つに記載のタンパク質のアミノ酸配列を含んだ天然に存在するタンパク質又はそれらの塩と相互作用する物質のスクリーニング方法。

（２０）立体構造座標表１～２０のいずれかに記載されたタンパク質の立体構造のうちアミノ酸番号８～９８番目のアミノ酸残基のタンパク質の立体構造情報に関する情報を用いて、（１）～（４）のいずれか一つに記載のタンパク質のアミノ酸配列と３０％以上の相同性を有するアミノ酸配列を有する構造未知タンパク質のホモロジーモデリングを行い、前記構造未知タンパク質の立体構造を推定する方法。

#### 図面の簡単な説明

図１は、実施例１～４におけるＳＤＳゲル電気泳動図を示す。図１（ａ）は、

実施例 1 の S D S ゲル電気泳動図を示し、図 1 (b) は、実施例 2 の S D S ゲル電気泳動図を示し、図 1 (c) は、実施例 3 の S D S ゲル電気泳動図を示し、図 1 (d) は、実施例 4 の S D S ゲル電気泳動図を示す。

図 2 は、各比較例の S D S ゲル電気泳動図を示す。図 2 (a) は比較例 1 の S D S ゲル電気泳動図を示し、図 2 (b) は比較例 2 の S D S ゲル電気泳動図を示し、図 2 (c) は比較例 3 の S D S ゲル電気泳動図を示す。

図 3 は、配列番号 1 に記載されたタンパク質の 1 次元核磁気共鳴スペクトルと  $^1\text{H}$  -  $^{15}\text{N}$  HSQC スペクトルを示す。図 3 (a) は、1 次元核磁気共鳴スペクトルを表し、図 3 (b) は、 $^1\text{H}$  -  $^{15}\text{N}$  HSQC スペクトルを表す。

10 図 4 は、配列番号 3 に記載されたタンパク質の 1 次元核磁気共鳴スペクトルと  $^1\text{H}$  -  $^{15}\text{N}$  HSQC スペクトルを示す。図 4 (a) は、1 次元核磁気共鳴スペクトルを表し、図 4 (b) は、 $^1\text{H}$  -  $^{15}\text{N}$  HSQC スペクトルを表す。

図 5 は、配列番号 5 に記載されたタンパク質の 1 次元核磁気共鳴スペクトルと  $^1\text{H}$  -  $^{15}\text{N}$  HSQC スペクトルを示す。図 5 (a) は、1 次元核磁気共鳴スペクトルを表し、図 5 (b) は、 $^1\text{H}$  -  $^{15}\text{N}$  HSQC スペクトルを表す。

図 6 は、配列番号 7 に記載されたタンパク質の 1 次元核磁気共鳴スペクトルと  $^1\text{H}$  -  $^{15}\text{N}$  HSQC スペクトルを示す。図 6 (a) は、1 次元核磁気共鳴スペクトルを表し、図 6 (b) は、 $^1\text{H}$  -  $^{15}\text{N}$  HSQC スペクトルを表す。

図 7 は、293 細胞、及び HeLa 細胞を用いた生細胞数の測定結果を表す図である。

図 8 は、実施例 9 のウェスタンブロッティングの検出像を示す図面に変わる写真である。レーン 1 は HeLa 細胞抽出液の上清のみ (対照)、レーン 2 は HeLa 細胞に IKK- $\gamma$  (1-419) と FLAG 配列を発現させたもの (対照)、レーン 3 は、HeLa 細胞に IKK- $\gamma$  (1-419) と CAP- $\gamma$  様ドメインタンパク質 (464-554) に FLAG 配列を付加したものを発現させたもののレーンを示す。

発明を実施するための最良の形態

(本発明のタンパク質)

本発明のタンパク質は、立体構造をもったドメインを形成するタンパク質である。本発明は、より具体的には、配列番号 1、3、5、7 のいずれか一つに記載される CAP-Gly 様ドメインタンパク質、又は配列番号 5 に記載されたアミノ酸配列の N 末端から 0 個～10 個のアミノ酸残基が欠損し、更に C 末端から 0 個～5 個のアミノ酸残基が欠損したアミノ酸配列を有し、アミノ酸残基数が 92～106 であるタンパク質（すなわち、配列番号 1 のアミノ酸配列の N 末端に 0～10 個、C 末端に 0～5 個のアミノ酸残基を付加したタンパク質）に関する。

以下、本発明のタンパク質の機能などについて説明する。

CAP-Gly は、cytoskeletal-associated-protein-glycine-conserved domain の略であり、細胞内小器官や染色体を細胞内の微小管に結合する役割を果たすタンパク質を構成する。CAP-Gly ドメインは、保存性の高い約 42 残基からなるグリシンに富んだ領域を含む [Riehemann K., Sorg C. Sequence homologies between four cytoskeleton-associated proteins. Trends Biochem. Sci. 18: 82-83 (1993)]。このドメインを含むタンパク質としては、細胞内小胞体と微小管を接続する中間径フィラメントに関連する 160 kDa のタンパク質のレスチン (restin) (細胞質のリンカータンパク質 170 または CLIP-170 と呼ばれる)、脊椎動物のダイナクチン [150 kDa のダイニン関連ポリペプチド (DAP)]、アクティベータ I の主要な成分である *Drosophila* glued 複合体、有糸分裂期の微小管の形成・安定化および対合期における紡錘体融合に必要と考えられる酵母タンパク質 BIK1、酵母タンパク質 NIP100 (NIP80)、ヒトタンパク質 CKAP1/TFCB、*Schizosaccharomyces pombe* タンパク質の alp11、*C. elegans* のタンパク質と推定される F53F4.3 などが知られている。

なお、CAP-Gly 様ドメインタンパク質と疾病との関連については、実施例により CAP-Gly 様ドメインに細胞増殖抑制効果があることが示されたことと、CAP-Gly 様ドメインが IKK- $\gamma$  (gamma) と結合することが示されたことから、CAP-Gly 様ドメインは癌関連疾患の原因遺伝子の一つであると予測できる。すなわち、実施例 8 では、CAP-Gly 様ドメインタンパク質は、HeLa 細胞（子宮頸癌細胞）及び 293 細胞において増殖抑制効果を示し、実施例 9 では IKK- $\gamma$  との結合性を示した。ここで I

KK- $\gamma$ は、転写調整因子NF- $\kappa$ Bと結合してNF- $\kappa$ Bの転写促進機能を抑制する因子であり、またNF- $\kappa$ Bは癌遺伝子*Rel*ファミリーであるp50とp65によりヘテロ複合体を形成している。CAP-Gly様ドメインは、IKK- $\gamma$ と結合し、活増殖抑制能を示すことから、IKK- $\gamma$ に結合してNF- $\kappa$ Bの転写促進を抑制しているものと考えられる。このようにCAP-Gly様ドメインにより細胞は増殖抑制の制御を受けるため本発明のタンパク質は、癌抑制遺伝子産物としての機能を有している。癌抑制遺伝子に変異が起き増殖抑制活性が低下すると、癌が発病することはよく知られた事実である(田矢洋一ほか Bio Science 用語ライブラリー 癌遺伝子・癌抑制遺伝子 p113-115 羊土社 2000)。網膜芽細胞腫を引き起こすレチノブラストーマ遺伝子が有名である(Weinberg RA. The retinoblastoma protein and cell cycle control. *Cell* 81, 323-330 1995)。殊に、本発明に利用した遺伝子(KIAA0849)は、ヒトのターバン腫瘍症候群の原因遺伝子であることが知られている(*Nature Genet.* 25, 160-165 2000)。KIAA0849の発現するタンパク質のどのドメインが疾病の原因であるかは未だ不明であるが、本発明で例示した、本発明のタンパク質の癌抑制遺伝子的な機能を考えると、CAP-Gly様ドメインタンパク質が本疾病の原因であることが予測される。本発明のタンパク質は、少なくともターバン症候群に対する薬物のスクリーニングへの利用や、立体構造情報を利用した薬物の最適化、および癌関連の疾患の予防、治療に有効に用いられ得る。

また、本発明は、配列番号1、3、5、7のいずれか一つに記載のアミノ酸配列、又は配列番号5に記載されたアミノ酸配列のN末端から0個～10個のアミノ酸残基が欠損し、更にC末端から0個～5個のアミノ酸残基が欠損したアミノ酸配列において、1若しくは数個(1～9個、好ましくは1～5個、さらに好ましくは1～2個)のアミノ酸が欠失、置換又は付加されたアミノ酸配列からなり、配列番号5に記載されたアミノ酸配列のN末端から0個～10個のアミノ酸残基が欠損し、更にC末端から0個～5個のアミノ酸残基が欠損したアミノ酸配列のいずれか一つに記載されたアミノ酸配列からなるタンパク質のいずれかと実質的に同一の機能を有するタンパク質またはその塩も提供する。

なお、「本発明のタンパク質と実質的に同一の細胞増殖抑制機能を有する」とは、本発明のタンパク質が有する細胞増殖抑制機能を有することを意味する。ここで、そのような分子機能としては、I K K - g a m m a との結合性のほか、C A P - G l y 様ドメインタンパク質が有する機能や活性が上げられる。

- 5 I K K - g a m m a は、inhibitor-kappa B の略であり、N F (N u c l e a r F a c t o r) - k B に結合する。N F - k B は、免疫グロブリン k L 鎖遺伝子のイントロンエンハンサーに結合する転写因子であり、p 5 0 と p 6 5 との 2 種類のサブユニットからなるヘテロ 2 量体である。ここで p 5 0、p 6 5 はともに癌遺伝子 R e l に相同性を示し、R e l ファミリーに属する。その機能は、
- 10 N F - k B は当初 B 細胞に特異的で B 細胞の分化に伴って発現する細胞特異的な遺伝子の発現を制御しているものと考えられた。その後、非 B 細胞にも同様の効果がみられた。また、N F - k B は免疫グロブリン遺伝子の他にも様々な遺伝子の転写調節領域にも結合し、これらの遺伝子の転写を活性化する。非 B 細胞では、不活性型の N F - k B が I K K - g a m m a と結合し複合体を形成している。
- 15 細胞外刺激により I K K - g a m m a はリン酸化による不活性化を受け、その結果、N F - k B が解離して各核内に移行して活性型となり、転写因子として働く。I K K - g a m m a のサブユニットとしては、I K K -  $\alpha$ 、I K K -  $\beta$ 、b c l - 3 が知られている。

## 20 (タンパク質の配列)

- 本発明のタンパク質の配列決定に関しては、i) 公知のタンパク質配列情報に基づき、対象とする機能を有するドメイン領域を推定した後、ii) その推定ドメイン領域のアミノ酸配列を基本パターンとするドメイン候補配列パターンを用意し、iii) 各配列パターン毎にタンパク質発現を行い、得られたドメインを形成
- 25 するタンパク質の構造安定性評価により、良好な結果を示すものを目的ドメインとし、この目的ドメインのアミノ酸配列により各タンパク質を定義する。即ち、本発明のタンパク質は、全長タンパク質中のある一部分（目的とする機能を有する）を断片化してドメインを形成するタンパク質として発現させた時に、安定な構造を有するものを経験的に選別したものであり、ドメイン領域予測の段階では

数100のオーダーで存在するドメイン候補が、種々の要因により絞り込まれて実際は10～数10のオーダーまで厳選される。従って、このように選別されたタンパク質を、立体構造解析に用いることにより、高精度で且つ信頼性に優れた構造解析を行うことが可能となる。

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#### (ドメイン領域の推定)

全長タンパク質中のドメイン領域を推定する手法としては、バイオインフォマティクスなどの情報科学的な手法や計算科学的な手法（特願2001 - 309434号明細書参照）、deleted DNAライブラリーとGFPの組み合わせ（特開2002-262873号公報参照）、プロテアーゼによる限定分解などの実験的な手法等、いずれも利用可能であり、特に限定されるものではなく、より精度の高い手法を用いることにより、ドメイン候補群から目的ドメインを選び出す作業効率が向上する。

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#### (ドメイン候補配列パターンの作製)

上記ドメイン候補配列パターンは、上述のように推定されたドメイン領域を基準にしてドメイン境界の位置をN末端側又はC末端側に伸ばしたり縮めたりすることにより作製される。

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例えば、推定ドメイン領域のN末端側のドメイン境界におけるアミノ酸残基の位置より、N末端側に数から数十残基分伸長させた、又はC末端側に数から数十残基分短縮したおよそ数十種類の境界を新たに設け、それらの境界をN末端とするドメイン候補配列パターンが用意される。同様に、推定ドメイン領域のC末端側のドメイン境界においても数種類のドメイン境界を選定し、各境界をC末端とするドメイン候補配列パターンが作製される。

#### (ドメイン境界の伸縮)

上記推定ドメイン領域のドメイン境界を伸縮させる方法としては、例えば上記ドメイン候補配列パターンに対応したcDNAを作成できるPCRプライマーを個々に合成して、PCRにより作成する方法が挙げられ、特に特開2003-9880号公報に示される2段階PCR法が好適である。

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#### (ドメイン候補配列パターンからの目的ドメインの抽出)



このようなドメイン候補配列パターンから実際に安定な立体構造を有する目的ドメインを選び出すためには、まず上述のようにして作製されたドメイン候補配列パターンのcDNAを用いてそれぞれタンパク合成を行う。

このドメイン候補配列パターンの発現系としては、特に限定されず、従来より公知の発現系がいずれも使用可能である。

次に、得られたタンパク質が実際に安定な立体構造をとっているかどうかを判定し、立体構造を有することが確認できたものを本発明におけるタンパク質として採用する。

このタンパク質の立体構造の安定性の指標としては、例えば合成されたドメインタンパク質が可溶性タンパク質としてSDSゲル電気泳動等により検出され、かつ適当な分子量相当な均一なバンドとして検出されるかという生化学的指標や、C末端側に融合させたGFPの蛍光強度、NMRスペクトル、CDスペクトルなどの分光学的手法等が挙げられる。

従来のタンパク質の配列決定の過程では、例えば①上記タンパク質合成で、目的とするドメインを形成するタンパク質が発現しない、或いは②発現はしたものの、凝集を起こす、溶解度が低い等の問題があった。本発明者らは、このような問題点を克服し、本発明を完成させるに至った。

(安定な立体構造を有することの確認)

上記NMRスペクトルにおいてドメインを形成するタンパク質のフォールディングの判定を以下に示す。

1Dスペクトルにおいて、ドメインを形成するタンパク質がフォールドしていない場合はVal、Leu、Ileなどのメチル基プロトンに由来するシグナルが0.8ppm付近に観測される。しかしフォールドしている場合はメチル基プロトンの環境が変化し、シグナルが高磁場側(0.7ppmから-0.5ppm付近)にシフトする。

25  $^1\text{H}$ - $^{15}\text{N}$  HSQCにおける判定は、クロスピーク収束度合いとシグナル強度の均一性の評価を目視により行うことが挙げられる。すなわち、クロスピークが密集した場合は、立体構造を形成していない状態とし、逆に分散した場合は安定な立体構造を形成している状態として立体構造の安定性の評価を行う。

(ベクター)

本発明の(組換え)ベクターは、適当なベクターに本発明の遺伝子を連結(挿入)することにより得ることができる。本発明の遺伝子を挿入するためのベクターは、宿主中で複製可能なものであれば特に限定されず、例えば、プラスミド DNA、ファージ DNA等が挙げられる。

プラスミド DNAとしては、大腸菌由来のプラスミド(例えばpRSET、pBR322、pBR325、pUC118、pUC119、pUC18、pUC19等)、枯草菌由来のプラスミド(例えばpUB110、pTP5等)、酵母由来のプラスミド(例えばYEp13、YEp24、YCp50等)などが挙げられ、ファージDNAとしてはλファージ(Charon4A、Charon21A、EMBL3、EMBL4、λgt10、λgt11、λZAP等)が挙げられる。さらに、レトロウイルス又はワクシニアウイルスなどの動物ウイルス、バキュロウイルスなどの昆虫ウイルスベクターを用いることもできる。

ベクターに本発明の遺伝子を挿入するには、まず、精製されたDNAを適当な制限酵素で切断し、適当なベクター DNAの制限酵素部位又はマルチクローニングサイトに挿入してベクターに連結する方法などが採用される。

本発明の遺伝子は、その遺伝子の機能が発揮されるようにベクターに組み込まれることが必要である。そこで、本発明のベクターには、プロモーター、本発明の遺伝子のほか、所望によりエンハンサーなどのシスエレメント、スプライシングシグナル、ポリA付加シグナル、選択マーカー、リボソーム結合配列(SD配列)などを含有するものを連結することができる。なお、選択マーカーとしては、例えばジヒドロ葉酸還元酵素遺伝子、アンピシリン耐性遺伝子、ネオマイシン耐性遺伝子等が挙げられる。

(形質転換体)

本発明の形質転換体は、本発明のポリヌクレオチドを、目的遺伝子が発現し得るように宿主中に導入することにより得ることができる。簡便で効率が良いことから多くの場合、ベクターを用いて形質転換が行われる。ここで、宿主としては、本発明のDNAを発現できるものであれば特に限定されるものではない。例えば、エッシェリヒア・コリ(Escherichia coli)等のエッシェリヒア属、バチルス・ズ

ブチリス (*Bacillus subtilis*) 等のバチルス属、シュードモナス・プチダ (*Pseudomonas putida*) 等のシュードモナス属、リゾビウム・メリロティ (*Rhizobium meliloti*) 等のリゾビウム属に属する細菌が挙げられる。また、サッカロミセス・セレビシエ (*Saccharomyces cerevisiae*)、シゾサッカロミセス・ポンベ (*Schizosaccharomyces pombe*) 等の酵母、さらにCOS細胞、CHO細胞等の動物細胞が  
5 挙げられる。あるいはSf9、Sf21等の昆虫細胞を用いることもできる。

大腸菌等の細菌を宿主とする場合は、本発明のポリヌクレオチドを導入した組換えベクターが該細菌中で自律複製可能であると同時に、プロモーター、リボソーム結合配列、本発明の遺伝子、転写終結配列により構成されていることが好ましい。また、プロモーターを制御する遺伝子が含まれていてもよい。  
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大腸菌としては、例えばエッシェリヒア・コリ (*Escherichia coli*) K12、DH1などが挙げられ、枯草菌としては、例えばバチルス・ズブチリス (*Bacillus subtilis*) などが挙げられる。プロモーターとしては、大腸菌等の宿主中で発現できるものであればいずれを用いてもよい。例えばtrpプロモーター、lacプロモーター、 $P_L$  プロモーター、 $P_R$ プロモーターなどの、大腸菌やファージに由来するプロモーターが用いられる。tacプロモーターなどのように、人為的に設計改変されたプロモーターを用いてもよい。細菌への組換えベクターの導入方法としては、細菌にDNAを導入する方法であれば特に限定されるものではない。例えばカルシウムイオンを用いる方法 (Cohen, S. N. et al. (1972) Proc. Natl. Acad. Sci., USA 69, 2110-2114)、エレクトロポレーション法等が挙げられる。  
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酵母を宿主とする場合は、例えばサッカロミセス・セレビシエ (*Saccharomyces cerevisiae*)、シゾサッカロミセス・ポンベ (*Schizosaccharomyces pombe*)、ピヒア・パストリス (*Pichia pastoris*) などが用いられる。この場合、プロモーターとしては酵母中で発現できるものであれば特に限定されず、例えばgal1プロモーター、gal10プロモーター、ヒートショックタンパク質プロモーター、MF $\alpha$ 1プロモーター、PH05プロモーター、PGKプロモーター、GAPプロモーター、ADHプロモーター、AOX1プロモーター等が挙げられる。酵母への組換えベクターの導入方法としては、酵母にDNAを導入する方法であれば特に限定されず、例えばエレクトロポレーション法 (Becker, D. M. et al. (1990) Methods. Enzymol., 194, 182-187)、  
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スフェロプラスト法 (Hinnen, A. et al. (1978) Proc. Natl. Acad. Sci., USA 75, 1929-1933)、酢酸リチウム法 (Itoh, H. (1983) J. Bacteriol. 153, 163-168) 等が挙げられる。

動物細胞を宿主とする場合は、サル細胞COS-7、Vero、チャイニーズハムスター  
5 卵巣細胞 (CHO細胞)、マウスL細胞、ラットGH3、ヒトFL細胞などが用いられる。  
プロモーターとしてSR $\alpha$ プロモーター、SV40プロモーター、LTRプロモーター、CMV  
プロモーター等が用いられ、また、ヒトサイトメガロウイルスの初期遺伝子プロ  
モーター等を用いてもよい。動物細胞への組換えベクターの導入方法としては、  
例えばエレクトロポレーション法、リン酸カルシウム法、リポフェクション法等  
10 が挙げられる。

昆虫細胞を宿主とする場合は、Sf9細胞、Sf21細胞などが用いられる。昆虫細胞  
への組換えベクターの導入方法としては、例えばリン酸カルシウム法、リポフェ  
クション法、エレクトロポレーション法などが用いられる。

## 15 (抗体)

本発明のタンパク質を抗原として用いて、その抗原に対する抗体を調製すること  
ができる。

[本発明のタンパク質に対するポリクローナル抗体の作製]

20 前記の抗原を用いて動物を免疫する。抗原の動物 1 匹当たりの投与量は、ウサ  
ギの場合、例えばアジュバントを用いて100~500  $\mu$ gである。アジュバントとして  
は、フロイント完全アジュバント (FCA)、フロイント不完全アジュバント (FIA)、  
水酸化アルミニウムアジュバント等が挙げられる。

免疫は、哺乳動物 (例えばラット、マウス、ウサギなどの非ヒト哺乳動物) に  
25 投与することにより行われる。投与部位は静脈内、皮下又は腹腔内である。また、  
免疫の間隔は特に限定されず、数日から数週間間隔、好ましくは2~3週間間隔  
で、1~10回、好ましくは2~3回免疫を行う。そして、最終の免疫日から6~  
60日後に抗体価を測定し、最大の抗体価を示した日に採血し、抗血清を得る。抗  
体価の測定は、酵素免疫測定法 (ELISA; enzyme-linked immunosorbent assay)、

放射性免疫測定法 (RIA ; radioimmuno assay) 等により行うことができる。

抗血清から抗体の精製が必要とされる場合は、硫安塩析法、イオン交換クロマトグラフィー、ゲル濾過、アフィニティークロマトグラフィーなどの公知の方法を適宜選択して、又はこれらを組み合わせることにより精製することができる。

5 [タンパク質に対するモノクローナル抗体の作製]

上記抗原を用いて動物を免疫する。必要であれば、免疫を効果的に行うため、前記と同様アジュバント（市販のフロイント完全アジュバント、フロイント不完全アジュバント等）を混合してもよい。

10 免疫は、哺乳動物（例えばラット、マウス、ウサギなど）に投与することにより行われる。抗原の1回の投与量は、マウスの場合1匹当たり50 $\mu$ gである。投与部位は、主として静脈内、皮下、腹腔内である。また、免疫の間隔は特に限定されず、数日から数週間間隔、好ましくは2～3週間間隔で、最低2～3回行う。そして、最終免疫後、抗体産生細胞を採集する。抗体産生細胞としては、脾臓細胞、リンパ節細胞、末梢血細胞等が挙げられるが、脾臓細胞が好ましい。

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[細胞融合]

ハイブリドーマを得るため、抗体産生細胞とミエローマ細胞との細胞融合を行う。抗体産生細胞と融合させるミエローマ細胞として、マウスなどの動物由来の細胞であって一般に入手可能な株化細胞を使用することができる。使用する細胞株として、薬剤選択性を有し、未融合の状態ではHAT選択培地（ヒポキサンチン、アミノプテリン及びチミジンを含む）で生存できず、抗体産生細胞と融合した状態でのみ生存できる性質を有するものが好ましい。例えば、ミエローマ細胞の具体例としてはP3X63-Ag. 8. U1 (P3U1)、P3/NSI/1-Ag4-1、Sp2/0-Ag14などのマウスミエローマ細胞株が挙げられる。

25 次に、上記ミエローマ細胞と抗体産生細胞とを細胞融合させる。細胞融合は、血清を含まないDMEM、RPMI-1640培地などの動物細胞培養用培地中に、抗体産生細胞とミエローマ細胞とを15:1～25:1の割合で混合し、ポリエチレングリコール等の細胞融合促進剤存在のもとで、あるいは電気パルス処理（例えばエレクトロポレーション）により融合反応を行う。

### [ハイブリドーマの選別及びクローニング]

細胞融合処理後の細胞から目的とするハイブリドーマを選別する。例えば、ヒポキサンチン、アミノプテリン及びチミジンを含む培地を用いて培養し、生育する細胞をハイブリドーマとして得ることができる。

- 5 次に、増殖したハイブリドーマの培養上清中に、目的とする抗体が存在するかどうかをスクリーニングする。ハイブリドーマのスクリーニングは、通常の方法に従えばよく、特に限定されるものではない。例えば、ハイブリドーマとして生育したウェルに含まれる培養上清の一部を採集し、酵素免疫測定法 (ELISA; enzyme-linked immunosorbent assay)、RIA (radioimmuno assay) 等によってスクリーニングすることができる。融合細胞のクローニングは、限界希釈法等により
- 10 リーニングすることができる。融合細胞のクローニングは、限界希釈法等により行い、最終的に単クローン抗体産生細胞であるハイブリドーマを樹立する。

### [モノクローナル抗体の採取]

- 樹立したハイブリドーマからモノクローナル抗体を採取する方法として、通常の細胞培養法等を採用することができる。細胞培養法においては、ハイブリドーマを10%牛胎児血清含有 RPMI-1640培地又はMEM 培地等の動物細胞培養培地中、
- 15 通常の培養条件 (例えば37℃、5 % CO<sub>2</sub>濃度) で3~10日間培養し、その培養上清から抗体を取得する。

- 上記抗体の採取方法において、抗体の精製が必要とされる場合は、硫酸分画法、イオン交換クロマトグラフィー、アフィニティークロマトグラフィー、ゲルクロマトグラフィーなどの公知の方法を適宜に選択して、又はこれらの方法を組み合わせることにより精製することができる。
- 20

### (本発明のタンパク質の製造)

- 本発明のタンパク質は、例えば、形質転換体を培養し、その培養物から採取することにより得ることができる。「培養物」とは、培養上清のほか、培養細胞若しくは培養菌体又は細胞若しくは菌体の破碎物のいずれをも意味するものである。
- 25 「本発明の形質転換体を培養する方法」は、宿主の培養に適用される通常の方法に従って行われる。

大腸菌や酵母菌等の微生物を宿主として得られた形質転換体を培養する培地

としては、微生物が資化し得る炭素源、窒素源、無機塩類等を含育し、形質転換体の培養を効率的に行うことができる培地であれば、天然培地、合成培地のいずれを用いてもよい。炭素源としては、グルコース、フラクトース、スクロース、デンプン等の炭水化物、酢酸、プロピオン酸等の有機酸、エタノール、プロパノール等のアルコール類が用いられる。窒素源としては、アンモニア、塩化アンモニウム、硫酸アンモニウム、酢酸アンモニウム、リン酸アンモニウム等の無機酸若しくは有機酸のアンモニウム塩又はその他の含窒素化合物のほか、ペプトン、肉エキス、コーンステープリカー等が用いられる。無機物としては、リン酸第一カリウム、リン酸第二カリウム、リン酸マグネシウム、硫酸マグネシウム、塩化ナトリウム、硫酸第一鉄、硫酸マンガン、硫酸銅、炭酸カルシウム等が用いられる。

培養は、好ましくは、振盪培養又は通気攪拌培養などの好氣的条件下、37℃で6～24時間行う。培養期間中、pHは7.0～7.5に保持する。pHの調整は、好ましくは無機又は有機酸、アルカリ溶液等を用いて行う。培養中は必要に応じてアンピシリンやテトラサイクリン等の抗生物質を培地に添加してもよい。

プロモーターとして誘導性のプロモーターを用いた発現ベクターで形質転換した微生物を培養する場合は、必要に応じてインデューサーを培地に添加してもよい。例えば、Lacプロモーターを用いた発現ベクターで形質転換した微生物を培養するときにはイソプロピル-β-D-チオガラクトピラノシド (IPTG) 等を、trpプロモーターを用いた発現ベクターで形質転換した微生物を培養するときにはインドールアクリル酸 (IAA) 等を培地に添加してもよい。

動物細胞を宿主として得られた形質転換体を培養する培地としては、一般に使用されているRPMI1640培地、DMEM培地又はこれらの培地に牛胎児血清等を添加した培地等が用いられる。培養は、通常、5%CO<sub>2</sub>存在下、37℃で1～30日行う。培養中は必要に応じてカナマイシン、ペニシリン等の抗生物質を培地に添加してもよい。

培養後、タンパク質が菌体内又は細胞内に生産される場合には、菌体又は細胞を破碎することによりタンパク質を抽出する。また、本発明のタンパク質が菌体外又は細胞外に生産される場合には、培養液をそのまま使用するか、遠心分離等

により菌体又は細胞を除去する。その後、タンパク質の単離精製に用いられる一般的な生化学的方法、例えば硫酸アンモニウム沈殿、ゲルクロマトグラフィー、イオン交換クロマトグラフィー、アフィニティークロマトグラフィー等を単独で又は適宜組み合わせて用いることにより、前記培養物中から本発明のタンパク質を単離精製することができる。この精製工程の間又は後において、プロテアーゼ処理により精製のために用いられたタグ配列を除去することができる。

(無細胞タンパク質合成系を用いるドメインを形成するタンパク質の製造方法)

- 10 本発明は、無細胞タンパク質合成系を用いる、配列番号 1、3、5、7 のいずれか一つに記載のアミノ酸配列を有するドメインを形成するタンパク質、および配列番号 5 に記載されたアミノ酸配列の N 末端から 0 個～10 個のアミノ酸残基が欠損し、更に C 末端から 0 個～5 個のアミノ酸残基が欠損したアミノ酸配列を有し、アミノ酸残基数が 92～106 であるタンパク質の製造方法も提供する。
- 15 無細胞タンパク質合成系は、細胞抽出液を用いて試験管内でタンパク質を合成する系である。「無細胞タンパク質合成系」は、mRNA の情報を読み取ってリボソーム上でタンパク質を合成する無細胞翻訳系、及び DNA を鋳型として RNA を合成する無細胞転写系と無細胞翻訳系の両者を含む。無細胞タンパク質合成系は、系を容易に改変することができるため、目的のタンパク質に適した発現系を構築しやすいという利点がある。なお、無細胞タンパク質合成系の詳細については、特許公開 2000-175695 号などに記載されている。
- 20

[細胞抽出液]

- 粗細胞抽出液は、細菌（例えば大腸菌等）、菌類（例えば出芽酵母等）、小麦胚芽、ウサギ網赤血球、マウス L-細胞、エールリッヒ腹水癌細胞、HeLa 細胞、CHO 細胞等の、高いタンパク質合成活性の状態の真核および原核生物細胞からの抽出液であってもよい (Clemens, M. J., Transcription and translation—a practical approach, (1984), pp. 231-270, Henes, B. D. と Higgins, S. J. 編, IRL Press, Oxford)。
- 25



粗細胞抽出液はリボソーム、tRNAなどのタンパク質合成に必要な成分を含むことが好ましい。粗抽出液の調製は、例えばPratt, J. M. ら, Transcription and translation—a practical approach, (1984), pp. 179–209, Henes, B. D. とHiggins, S. J. 編, IRL Press, Oxfordに記載の方法を使用できる。具体的には、フレンチプレスによる破碎（Prattら、上掲）やガラスビーズを用いた破碎によって行うことができる。好ましい細胞抽出液は大腸菌S30細胞抽出液である。S30細胞抽出液は、大腸菌BL21 Codon Plus株から既知の方法、例えばPrattら（上掲）の方法に従って調製できるし、あるいはPromega社やNovagen社から市販されるものを使用してもよい。細胞抽出液としては、主に大腸菌、小麦胚、ウサギ網赤血球由来のものが使用される。

#### [透析装置]

15 透析膜を介して内液と外液とを隔離して含む振とうもしくは攪拌可能な透析装置を用いることができる。小スケール反応用装置としては、例えばDispo Dialyzer（登録商標）（Spectrum社製）やSlidealyzer（登録商標）（Pierce社製）が挙げられる。

また、大スケール反応用装置としては、Spectra/Por（登録商標）  
20 透析用チューブ（Spectrum社製）を例示できる。

#### [透析内液]

無細胞タンパク質合成系における透析内液（すなわち、タンパク質合成反応液）には、大腸菌S30等の濃縮細胞抽出液の他に、目的のタンパク質をコードするDNAもしくはRNA（mRNA等）、ATP（アデノシン5'－三リン酸）、  
25 GTP（グアノシン5'－三リン酸）、CTP（シチジン5'－三リン酸）、UTP（ウリジン5'－三リン酸）、緩衝液、塩類、アミノ酸、RNアーゼ阻害剤、抗菌剤、必要によりRNAポリメラーゼ（DNAを鋳型として用いる場合）およびtRNA、などを含んでもよい。

その他、ATP再生系としてホスホエノールピルベートとピルビン酸キナーゼの組合わせまたはクレアチンホスフェートとクレアチンキナーゼの組合わせ、ポリエチレングリコール（例えば#8000）、3', 5'-cAMP、葉酸類、RNアーゼ阻害剤、還元剤（例えばジチオトレイトール）、などを含むことができる。一方、透析外液（すなわち、タンパク質合成基質溶液）は、透析内液組成から細胞抽出液、RNアーゼ阻害剤、DNAもしくはRNA、RNAポリメラーゼを除いたものが使用できる。例えば、緩衝液、ATP、GTP、CTP、UTP、塩類、アミノ酸、抗菌剤などを含むことができる。添加成分の濃度は任意に選択することができる。

#### [緩衝液]

緩衝液としては、例えばHepes-KOH、Tris-OAcのような緩衝剤を使用できる。塩類の例は、酢酸塩（例えばアンモニウム塩、マグネシウム塩など）、グルタミン酸塩などであり、抗菌剤の例はアジ化ナトリウム、アンピシリンなどである。アミノ酸はタンパク質を構成する20種のアミノ酸である。また、DNAを鋳型として用いる場合にはRNAポリメラーゼを反応系に添加するが、例えばT7RNAポリメラーゼなどの市販の酵素を使用できる。

透析膜の内部に上記透析内液を、一方その外部に透析外液を入れた、膜の分子量限界に応じて物質が膜を介して移動可能とする閉鎖系を振とうまたは攪拌（回転攪拌など）し、生成した目的タンパク質を、透析内液または外液から回収することができる。温度および攪拌速度などの反応条件は、タンパク質の種類に応じて任意の条件を使用できる。タンパク質の合成の場合、温度は通常約25～約50℃、好ましくは37℃であるが、高度好熱菌由来の菌体抽出液を用いる無細胞タンパク質合成系では50℃を超える温度でもよい。

また、振とう速度もしくは攪拌速度は低速、例えば100～200rpmを使用できる。目的のタンパク質の生成を監視しながら、反応時間を適当に選択することができる。

上記無細胞タンパク質合成系の透析外液を、反応速度が低下した時点で新鮮なものとの交換することが好ましい。また、透析膜の分子量限界が10000ダルトン

を超えるもの、好ましくは約50000ダルトンおよびそれ以上のものを使用する場合には、タンパク質の生産量をさらに高めることができる。

#### [タンパク質の精製]

生成タンパク質の精製は、生細胞からの分離と比べて混在する汚染物質の量および種類が格段に少ないため、比較的容易に行うことができる。精製法は、タンパク質の性質に応じて従来公知のものを単独にまたは適宜組合わせて使用できる。例えば硫酸アンモニウムもしくはアセトン沈殿、酸抽出、アニオンもしくはカチオン交換クロマトグラフィー、疎水性相互作用クロマトグラフィー、アフィニティークロマトグラフィー、ゲルろ過クロマトグラフィー、HPLC、電気泳動、クロマトフォーカシングなどの慣用の技術を挙げることができる。この精製工程の間又は後においてプロテアーゼ処理により、精製のために用いられたタグ配列を除去することができる。生成タンパク質の同定および定量は、活性測定、免疫学的測定、分光学的測定、アミノ酸分析などによって、必要に応じて標準サンプルと比較しながら行うことができる。

#### (スクリーニング方法)

本発明のスクリーニング方法としては、本発明のタンパク質またはその塩と候補物質とを接触させる工程と、前記タンパク質と候補物質とが相互作用をするかどうかを確認する工程とを含む前記タンパク質と相互作用を有する化合物のスクリーニング方法が挙げられる。ここで、「相互作用を有する」とは、化合物とタンパク質が結合して、そのタンパク質の分子機能及び／又は生理活性を抑制または増強すること、などをいう。このスクリーニング方法においては、そのタンパク質と候補物質を接触させて、そのタンパク質の分子機能または生理活性が変化するか否かを測定する。

#### [NMRを用いた相互作用物質探索]

相互作用物質探索にNMRを用いる場合、候補物質の添加前後でのタンパク質のシグナル変化の有無により、相互作用の有無を判定することができる。すなわち、相互作用候補物質がタンパク質と相互作用する場合には、タンパク質の相

相互作用部位近傍に由来するNMRシグナルの化学シフト値、線幅、個数等に変化  
が起きることが期待されるので、その変化を検出することで相互作用の有無を判  
定できる。特に $^{15}\text{N}$ で標識したタンパク質は調製が比較的容易であり、そこから得  
られる $^{15}\text{N}$ -HSQCスペクトルは、分解能や感度が比較的高く、添加した相互作用候  
5 補物質由来のNMRシグナルの影響を受けにくいため、その有用性は高い。

#### (定量方法)

本発明のタンパク質は、例えば本発明の抗体を用いることによっても定量する  
ことができる。抗体を用いたタンパク質の定量方法としては、例えば、サンドイ  
10 ッチ免疫測定法、競合法、イムノメトリック法、ネフメトリー法などが挙げられ  
る。また、放射性同位体や酵素、蛍光物質などの標識物質を用いて検出すること  
もできる。

#### (定量方法を用いたスクリーニング方法)

15 本発明の抗体は、本発明のタンパク質と特異的に結合するため、本発明の抗体  
を用いることで、本発明のタンパク質と相互作用する化合物のスクリーニングなど  
に用いることができる。この際のスクリーニング方法としては、公知のスクリー  
ニング方法を用いることができる。

なお、本発明の抗体を用いた、本発明のタンパク質の定量方法によれば、本発  
20 明のタンパク質が関与する疾患の予防・診断を行うことができる。

#### (立体構造解析)

タンパク質の立体構造は、NMRによる構造解析、X線構造解析などによって  
解析することができる。

25

#### (NMR)

NMRに用いる試料としては、特に限定されるわけではないが、好ましくは、  
タンパク質中の $^{12}\text{C}$ 、または $^{14}\text{N}$ を $^{13}\text{C}$ 、 $^{15}\text{N}$ 核で安定同位体標識した試料を  
用いる（多核多次元NMR測定）。タンパク質を安定同位体標識する技術は慣用

技術であり、例えば、Cl ore, G. M. & Gronenborn, A. M.,  
Science, 252, p. 1390-1399, 1991等の文献に記載さ  
れている。特に、主鎖 $^{15}\text{N}$ 均一安定同位体標識したタンパク質試料を用いた解析  
が容易であり好ましい。また、タンパク質の主鎖の骨格を、 $^{13}\text{C}$ 、 $^{15}\text{N}$ 及び $^2\text{H}$   
5 のうち少なくとも2種類以上の同位体標識したものを使用してもよい（特表20  
01-514239）。

好ましくは、IPAP-HSQCスペクトルの観測等による $^{15}\text{N}$ - $^1\text{H}$ スピン  
結合定数の測定を行う。「IPAP-HSQCスペクトル」とは、準位相、反位  
相の2つのHSQCスペクトルを同時に観測し、両者のスペクトルの足しあわせ  
10 をすることにより、シグナルのオーバーラップを防いで、効果的に $^{15}\text{N}$ - $^1\text{H}$ ス  
ピン結合定数を読みとるための測定法である。

2種類以上のNMR法により化学シフト帰属が行われる。例えば、2次元NM  
Rとしては2D、DOQ-COSY、TOCSY、NOESY、HSQC等、多  
次元NMRとしては、HNCO、HCACO、HNCA、HCA(CO)N、H  
15 N(CO)CA、HNHB、CBCANH、H(CA)NH、HBHA(CO)  
NH、HCCH-COSY、HCANH、HCCH-TOCSY、HCACON、  
 $^{15}\text{N}$ -NOESY-HSQC、 $^{13}\text{C}$ -NOESY-HSQC等が公知技術として  
知られている。NMRの一般的手法は周知であり、例えば、「タンパク質のNM  
R」（共立出版、1996、荒田洋治）；「日本生化学会編 基礎生化学実験法  
20 第3巻 タンパク質I. 検出・構造解析法」第18章NMRによる立体構造解析  
（東京化学同人、2001年2月）；伊藤隆ら、日本農業学会誌21, p. 45  
0-459, 1996；田中俊之、化学と工業 第49巻 第2号 p. 155  
-158, 1996等に詳述されている。

立体構造解析にNMRを用いる場合、タンパク質の各プロトン間の核オーバ  
25 ハウザー効果の大きさから各プロトン間の距離を見積もり、その距離情報に基づ  
き立体構造を決定する方法が一般的である。化学シフト値、スカラーカップリン  
グ値、残余双極子カップリング値、水素結合等の情報を加えて立体構造を精密化  
することも可能である。

NMRデータから構造解析を行うための多くのプログラムが周知である。好ま

しくは、化学シフト帰属のためのものとして、NMR Pipe、PIPP、Capp、Felix、NMR View、XEASY、立体構造計算ソフトとしてX-PLOR、CNS、DYANA、DYNAMO等を用いて構造解析を行う。

5 (X線結晶構造解析)

立体構造解析にX線結晶構造解析を用いる場合、結晶化させたタンパク質のX線回折像に基づき電子密度図を計算し、立体構造を決定する。すなわち、タンパク質を結晶化し、その結晶に単色化されたX線をあて、得られたX線の回折像をもとに、該蛋白質の3次元構造を明らかにしていくものである(Blundell, T. L. 及びJohnson, L. N., PROTEIN CRYSTALLOGRAPHY, 1-565頁, (1976) Academic Press, New York)。

(立体構造情報に基づくスクリーニング方法)

15 次に、本発明は、前記タンパク質の立体構造に関する情報を用いて、前記タンパク質の活性部位を決定する工程と、当該活性部位と相互作用する化合物をコンピュータ上で検索する工程とを含む、前記タンパク質またはその塩と相互作用する化合物のスクリーニング方法をも提供する。

20 (インシリコ スクリーニング)

分子の3次元構造に基づく薬物設計については、医薬品の開発・第7巻「分子設計」(廣川書店)をはじめとして数多くの総説がある。具体的には、第一にFlexiDock、FlexX等のフレキシブルリガンドバインディングシミュレーションソフトウエアを用いて、Oracle等のリレーショナルデータベースに格納された低分子(分子量1000以下)化合物のライブラリー(たとえば約150000種)をコンピュータでスクリーニングする。このライブラリー内の化学物質はCONCORD等のプログラムで3次元構造を指定し、活性部位にはめ込める物質を選択することができる。選ばれた物質の中からInsight IIやMOE等のシミュレーションプログラムを用いて肉眼により更によく活性部位にあてはまる化合物を絞り込む。一連の過程で利

用されるコンピュータソフトウェアは、いずれも以下のような市販のものである。  
。

FlexiDock: Tripos Inc. FlexX: Tripos Inc. CONCORD: Tripos Inc. Oracle:  
Oracle Corp. Insight II: Molecular Simulations Inc. MOE: Chemical Computing  
5 Group Inc.

他の方法は、未知の物質を含めた候補化合物のコンピュータによる設計である。  
。この方法には、メチル、エチル等の化学基を活性部位に並べて適合するものを  
探す方法と、原子を活性部位にコンピュータプログラムを用いて並べていく方法  
とが知られている。

10

(ウェットスクリーニング)

本発明のタンパク質と相互作用する候補化合物の有力候補を選択するために、  
インシリコスクリーニングにより得られた候補化合物と本発明のタンパク質と接  
触させ、本発明のタンパク質の分子機能又は生理活性を測定する。候補化合物と  
15 本発明のタンパク質の立体構造データをもとに候補化合物を修飾し、より望まし  
い構造とする。

絞り込まれた化合物を合成し、実際に前記タンパク質と作用させ、スクリーニ  
ングする。前記タンパク質の活性を変化させた化合物を、更に動物実験によって  
インビトロでの活性や、体内動態、あるいは毒性等に関する試験を行う。

20 (相互作用する物質を含む医薬)

本発明のタンパク質と相互作用を有する物質は、そのタンパク質が関与する疾  
患の予防及び／又は治療剤として用いることができる。そのような医薬は、経口  
又は非経口的に全身又は局所投与することができる。

本発明の医薬を経口投与する場合は、錠剤、カプセル剤、顆粒剤、散剤、丸剤、  
25 トローチ剤、内用水剤、懸濁剤、乳剤、シロップ剤等のいずれのものであっても  
よく、使用する際に再溶解させる乾燥生成物にしてもよい。また、本発明の医薬  
を非経口投与する場合は、静脈内注射（点滴を含む）、筋肉内注射、腹腔内注射、  
皮下注射、坐剤などの製剤形態を選択することができ、注射用製剤の場合は単位  
投与量アンプル又は多投与量容器の状態で提供される。

これらの各種製剤は、製剤上通常用いられる賦形剤、増量剤、結合剤、湿潤剤、崩壊剤、潤滑剤、界面活性剤、分散剤、緩衝剤、保存剤、溶解補助剤、防腐剤、矯味矯臭剤、無痛化剤、安定化剤、等張化剤等などを適宜選択し、常法により製造することができる。

- 5      上記各種製剤は、医薬的に許容される担体又は添加物を共に含むものであってもよい。このような担体及び添加物の例として、水、医薬的に許容される有機溶剤、コラーゲン、ポリビニルアルコール、ポリビニルピロリドン、カルボキシビニルポリマー、アルギン酸ナトリウム、水溶性デキストラン、カルボキシメチルスターチナトリウム、ペクチン、キサンタンガム、アラビアゴム、カゼイン、ゼラチン、寒天、グリセリン、プロピレングリコール、ポリエチレングリコール、ワセリン、パラフィン、ステアシルアルコール、ステアリン酸、ヒト血清アルブミン、マンニトール、ソルビトール、ラクトースなどが挙げられる。使用される
- 10      添加物は、本発明の剤型に応じて上記の中から適宜又は組み合わせて選択される。

- 本発明の医薬の投与量は、投与対象の年齢、投与経路、投与回数により異なり、
- 15      広範囲に変えることができる。この場合、本発明のタンパク質の有効量と適切な希釈剤及び薬理学的に使用し得る担体との組合せとして投与される有効量は、一回につき体重1kgあたり0.01mg～1000 mgの範囲の投与量を選ぶことができ、好ましくは1日1回から数回に分けて1日以上投与される。

20      (配列の説明)

本明細書の配列番号は、以下の配列を示す。

[配列番号1]

CAP-Gly様ドメインタンパク質(KIAA0849 タンパク質(464-554))  
のアミノ酸配列を示す。

25      [配列番号2]

配列番号1のタンパク質をコードするDNA配列を示す。

[配列番号3]

CAP-Gly様ドメインタンパク質(KIAA0849 タンパク質(454-554))  
のアミノ酸配列を示す。



[配列番号 4]

配列番号 3 のタンパク質をコードする DNA 配列を示す。

[配列番号 5]

- 5 CAP-Gly 様ドメインタンパク質 (K I A A 0 8 4 9 タンパク質 (454-559) のアミノ酸配列 (配列番号 1 に示されるアミノ酸配列の N 末端と C 末端にそれぞれアミノ酸残基 NTAPVQESPP、VSNQI が付加したアミノ酸配列) を示す。

[配列番号 6]

配列番号 5 のタンパク質をコードする DNA 配列を示す。

[配列番号 7]

- 10 CAP-Gly 様ドメインタンパク質 (K I A A 0 8 4 9 タンパク質 (464-559) のアミノ酸配列を示す。

[配列番号 8]

配列番号 7 のタンパク質をコードする DNA 配列を示す。

[配列番号 9]

- 15 以下の実施例で用いられるプライマーの塩基配列を示す。

[配列番号 10]

以下の実施例で用いられるプライマーの塩基配列を示す。

[配列番号 11]

以下の実施例で用いられるプライマーの塩基配列を示す。

- 20 [配列番号 12]

以下の実施例で用いられるプライマーの塩基配列を示す。

[配列番号 13]

以下の実施例で用いられるプライマーの塩基配列を示す。

[配列番号 14]

- 25 以下の実施例で用いられるプライマーの塩基配列を示す。

[配列番号 15]

以下の実施例で用いられるプライマーの塩基配列を示す。

[配列番号 16]

以下の実施例で用いられるプライマーの塩基配列を示す。

[配列番号 1 7]

以下の実施例で用いられるプライマーの塩基配列を示す。

[配列番号 1 8]

以下の実施例で用いられるプライマーの塩基配列を示す。

5 [配列番号 1 9]

以下の実施例で用いられるプライマーの塩基配列を示す。

[配列番号 2 0]

配列番号 1 に示されるアミノ酸配列の N 末端と C 末端に複数のアミノ酸残基が付加したアミノ酸配列を示す。

10 [配列番号 2 1]

I K K - g a m m a (1-419) のアミノ酸配列を示す。

[配列番号 2 2]

配列番号 2 1 に示されるタンパク質の c D N A の塩基配列を示す。

## 15 実施例

以下に実施例を示して、本発明をより詳細に説明するが、これらは本発明の範囲を限定するものではない。

[実験例 1]

(1) ドメイン領域の推定

20 ドメイン領域の推定を、以下の手順で行った。

まず、1) <SCOP法> 問い合わせ配列について、タンパク質データベース SCOP (Version 1.55) に含まれる配列と相同性がある領域が検出された場合、その領域をドメインとして予測した。相同性検出手法として BLASTP を利用し、E-value が 0.1 以下のヒットがあった場合に、相同性があったと判断した。

25 2) <PFAM法> 問い合わせ配列について、タンパク質モチーフデータベース PFAM (version 6.5) に含まれる配列プロファイルと相同性がある領域が検出された場合、その領域をドメインとして予測した。相同性検出手法として HMMER を利用し、E-value が 0.1 以下のヒットがあった場合に相同性があったと判断した。

3) <ProDom法> 問い合わせ配列について、タンパク質モチーフデータベース

ProDom (2000年1月にWebより取得したバージョン) に含まれるコンセンサス配列のいずれかに対して相同性がある領域が検出された場合、その領域をドメインとして予測した。相同性検出手法として、BLASTPを利用し、E-valueが0.1以下のヒットがあった場合に相同性があったと判断した。

- 5      4) <NR法> 問い合わせ配列について、タンパク質配列データセット (NCBI-nr) に対してBLASTPによる相同性検索を行い、E-valueが0.1以下のヒットがあった場合、その相同性領域をグループとしてまとめ、ドメインとして予測した。

- 10      5) <PASS法> 問い合わせ配列について、タンパク質配列データセット (NCBI-nr) に対してBLASTPによる相同性検索を行い、相同性が検出された頻度を計算した。頻度の高い部分を山、低い部分を谷として表示し、谷となっている部分でドメイン境界となるように、一つの山をドメインとして予測した。

6) <No Hit法> 以上1) から5) までの方法のいずれを用いてもドメインとして検出されなかった領域 (残余領域) をドメインとして予測した。

- 15      7) <差分ドメイン境界設定法> 上記6つのドメイン予測について、ヒット領域が重なっている場合の優先順位は1) を最優先として、以下2)、3)、4)、5)、6) の順序とし、ヒット領域が重なっているものの、ドメイン境界のずれが30残基以上あり、かつ低い優先度での定義のほうがN末側あるいはC末側により長く存在している場合は、その差分の配列を別途ドメインとして予測した。

- 20      以上のいずれかの方法で推定されたドメイン領域のうち、Low-Complexity領域 (複雑性の低い配列領域) を1箇所以上有するものや、全長30残基に未満のものは、除外した。

- 25      K I A A 0 8 4 9 タンパク質 (CAP-Gly様ドメインタンパク質) のアミノ酸配列について上述のようにしてドメイン領域の推定を行い、NR法によりアミノ酸残基番号496-539の範囲をドメイン領域と推定した。このドメイン領域は、Low-Complexity領域 (複雑性の低い配列領域) をもたず、全長も30残基以上であるため、最終的にこの領域をバイオインフォマティクスによるドメイン推定の結果とした。

## (2) コンストラクトの製造

このK I A A 0 8 4 9 タンパク質中のアミノ酸残基番号496番から539番まで

のアミノ酸配列を有するタンパク質（ここで、推定ドメインと称する。）について、後述の無細胞タンパク質合成系を用い、タンパク質合成反応を行った。その後、得られた試料について定法に従ってSDSゲル電気泳動を行い、タンパク質の発現状態を調べた。

- 5     その結果、推定ドメインのアミノ酸配列情報からは、目的とするタンパク質の発現を行うことができなかった。

そこで、この推定ドメインのアミノ酸配列を基準にして、K I A A 0 8 4 9 タンパク質のアミノ酸配列に対し、該推定ドメインのドメイン境界の位置をN末端およびC末端においてそれぞれ数残基ずつ伸ばしたり縮めたりしたコンストラクトを系統的に作成した。

10

即ち、例えばK I A A 0 8 4 9 タンパク質のアミノ酸残基番号496番を基準とし、N末端側に10残基ずつ伸縮させ、またC末端側に10残基ずつ短縮させたパターンと、K I A A 0 8 4 9 タンパク質のアミノ酸残基番号539番を基準とし、N末端側に5残基ずつ短縮させ、またC末端側に5残基ずつ伸長させたパターンをそれぞれ用意した。

15

このようにして作成したコンストラクトを全て用いて、個々のパターンについてタンパク質発現を行い、その発現状態をSDSゲル電気泳動にて評価した。

#### [実施例1]

- 20     本実施例では、上述のようにして作成したコンストラクトのうち、立体構造解析に用いて好適なCAP-Gly様ドメインを有するK I A A 0 8 4 9 タンパク質（464～554）：（配列番号1）について検討した結果を説明する。

#### （1）発現ベクターの構築

##### ① 第1次PCR

- 25     K I A A 0 8 4 9 タンパク質をコードするcDNA（DDBJ accession No. AB020656. 2）がプラスミドpBluescriptII SK+にクローン化されたプラスミドを含む組換え大腸菌培養液を用いて、5' プライマー1（配列番号14）、3' プライマー1（配列番号15）を用いてPCRを行った。PCR反応液組成は、表1に示す通りとし、プログラムは、通常のPCRのプロトコルに従った。

[表 1] 第 1 次 P C R 反応の反応液組成

組成	濃度	添加量	終濃度
鋳型プラスミド	( $\times 1/10$ )	3 $\mu$ L	( $\times 3/200$ )
5' プライマー1	0.25 $\mu$ M	4 $\mu$ L	0.05 $\mu$ M
3' プライマー1	0.25 $\mu$ M	4 $\mu$ L	0.05 $\mu$ M
dNTPs (東洋紡)	2 mM	2 $\mu$ L	0.2 mM
Expand HiFi緩衝液 (15mM塩化マグネシウム含有) (ロッシュ)	(10 $\times$ )	2 $\mu$ L	(1 $\times$ )
滅菌蒸留水		4.85 $\mu$ L	
DNAポリメラーゼ (ロッシュ)	3.5 U/ $\mu$ L	0.15 $\mu$ L	0.02625 U/ $\mu$ L
合計量		20 $\mu$ L	

## 5 ② 第 2 次 P C R

次に、上記反応によって得られた第 1 次 P C R 産物と、T7プロモーター配列の下流にHisタグ配列を有する5' プライマー2 (配列番号 17) とT7ターミネーター配列を有する3' プライマー2 (配列番号 18)、及びユニバーサルプライマー-U2 (配列番号 19) とを用いて、第 2 次 P C R を行った。P C R 反応液組成は、表 2 に示す通りとし、プログラムは上記第 1 次 P C R と同様とした。

[表 2] 第 2 次 P C R 反応の反応液組成

組成	濃度	添加量	終濃度
第 1 次 P C R 産物 (鋳型)	( $\times 1/5$ )	5 $\mu$ L	( $\times 1/20$ )
5' プライマー 2	2 $\mu$ M	0.5 $\mu$ L	0.05 $\mu$ M
3' プライマー 2	2 $\mu$ M	0.5 $\mu$ L	0.05 $\mu$ M
ユニバーサルプライマー-U2	100 $\mu$ M	0.2 $\mu$ L	1 $\mu$ M

dNTPs (東洋紡)	2 mM	2 $\mu$ L	0.2 mM
Expand HiFi緩衝液(15mM塩化マグネシウム含有) (ロッシュ)	(10 $\times$ )	2 $\mu$ L	(1 $\times$ )
滅菌蒸留水		9.65 $\mu$ L	
DNAポリメラーゼ (ロッシュ)	3.5 U/ $\mu$ L	0.15 $\mu$ L	0.02625 U/ $\mu$ L
合 計 量		20 $\mu$ L	

この結果、T7プロモーターの制御下で、Hisタグ配列とK I A A 0 8 4 9タンパク質(464~554)との融合タンパク質を発現することのできる直鎖状二本鎖DNA断片を増幅できた。

### 5 ③ クローン化

上記第2次PCR反応により得られたDNA断片を、TOPOTA-クローニングキット(cloning kit) (インビトロジェン(invitrogen)社)により、ベクターpPCR2.1 (インビトロジェン社)にクローン化することにより、発現ベクターP011213-03を構築した。

10

### (2) K I A A 0 8 4 9タンパク質(464~554)タンパク質の発現

#### ① 透析法を用いた無細胞タンパク質合成法による<sup>15</sup>N標識CAP-Gly様ドメインの合成

15 大腸菌S30抽出液は、Zubayら(Annu. Rev. Geneti. 7, 267-287, 1973)の方法に従って、大腸菌BL21 コドン プラス(codon plus)株から調製した。

タンパク質合成反応は、表3に示す反応液組成の反応液3ml、および表4に示す透析外液組成の透析外液30mlのスケールで、液温を30℃に維持しつつ一晩行った。

[表3] 反応液組成

組 成	終濃度
Hepes-KOH (pH 7.5)	58 mM

DTT	1.8 mM
ATP	1.2 mM
CTP	0.8 mM
GTP	0.8 mM
UTP	0.8 mM
クレアチンリン酸	80 mM
クレアチンキナーゼ	0.25 mg/mL
ポリエチレングリコール (平均分子量. 8000)	4.0 %
3', 5'-cAMP	0.64 mM
L(-)-5-フォルミル-5, 6, 7, 8-テトラヒドロ葉酸	68 $\mu$ M
大腸菌トータルtRNA	175 $\mu$ g/mL
グルタミン酸カリウム	210 mM
酢酸アンモニウム	27.5 mM
酢酸マグネシウム	10.7 mM
[ <sup>15</sup> N] 標識体アミノ酸ミクスチャー	3 mg/mL
L-[ <sup>15</sup> N] システイン	1 mM
L-[ <sup>15</sup> N] トリプトファン	1 mM
L-[ <sup>15</sup> N] グルタミン	1 mM
L-[ <sup>15</sup> N] アスパラギン	1 mM
アジ化ナトリウム	0.05 %
T7 RNA ポリメラーゼ	66.6 $\mu$ g/mL
S 30 抽出液	30 %
鋳型DNA (P011213-03)	1 $\mu$ g/mL

[表 4] 透析外液組成

組成	終濃度
Hepes-KOH (pH 7.5)	58 mM

DTT	1.8 mM
ATP	1.2 mM
CTP	0.8 mM
GTP	0.8 mM
UTP	0.8 mM
クレアチン酸	80 mM
クレアチンキナーゼ	0.25 mg/mL
ポリエチレングリコール (平均分子量 8000)	4.0 %
3', 5' -cAMP	0.64 mM
L (-)-5-フォルミル-5, 6, 7, 8-テトラヒドロ葉酸	68 $\mu$ M
グルタミン酸カリウム	210 mM
酢酸アンモニウム	27.5 mM
酢酸マグネシウム	10.7 mM
[ <sup>15</sup> N] 標識体アミノ酸ミクスチャー	3 mg/mL
L-[ <sup>15</sup> N] システイン	1 mM
L-[ <sup>15</sup> N] トリプトファン	1 mM
L-[ <sup>15</sup> N] グルタミン	1 mM
L-[ <sup>15</sup> N] アスパラギン	1 mM
アジ化ナトリウム	0.05 %

## ② SDSゲル電気泳動による発現状態の判定

合成反応終了後、常法に従ってSDSゲル電気泳動を行い、得られたタンパク質  
5 の発現状態を判定した。

その結果を図1 (a) に示す。図1 (a) から、K I A A 0 8 4 9タンパク質  
(464~554) (配列番号1に記載のアミノ酸配列を有するCAP-Gly様ドメ  
インタンパク質) が発現していることが確認できた。なお、図1 (a) において、  
第1レーンは精製時の目的フラクションを含むタンパク質、Mはマーカーレーン  
10 を表す。



## [実施例 2 ～ 4]

以下に説明する実施例 2 ～ 4 では、上述のようにして作成したコンストラクトのうち、K I A A 0 8 4 9 タンパク質 (454～554) (実施例 2)、K I A A 0 8 4 9 タンパク質 (454～559) (実施例 3)、K I A A 0 8 4 9 タンパク質 (464～559) (実施例 4) について検討した。それらの結果を、以下に説明する。

実施例 1 における第 1 次 P C R、及び第 2 次 P C R に用いた各種プライマーをそれぞれ表 5 に示すように代え、それ以外は実施例 1 と同様にして発現ベクターを構築し、得られた直鎖状二本鎖 DNA 断片を鋳型 DNA としてタンパク質合成を行った。

[表 5] 第 1 次 P C R 及び第 2 次 P C R で用いた各プライマーの配列番号

実施例 番号	第 1 次 P C R		第 2 次 P C R		
	5'プライ マー 1	3'プライ マー 1	5'プライ マー 2	3'プライ マー 2	ユニバーサル プライマー
1	配列番号 1 4	配列番号 1 5	配列番号 1 7	配列番号 1 8	配列番号 1 9
2	配列番号 1 3	配列番号 1 5	配列番号 1 7	配列番号 1 8	配列番号 1 9
3	配列番号 1 3	配列番号 1 6	配列番号 1 7	配列番号 1 8	配列番号 1 9
4	配列番号 1 4	配列番号 1 6	配列番号 1 7	配列番号 1 8	配列番号 1 9

合成反応終了後、実施例 1 と同様にして、SDSゲル電気泳動による発現状態の判定を行った。

その結果を、図 1 (b) ～ 図 1 (d) 示す。図 1 (b) は、実施例 2 の SDS ゲル電気泳動図を示し、図 1 (c) は、実施例 3 の SDS ゲル電気泳動図を示し、図 1 (d) は、実施例 4 の SDS ゲル電気泳動図を示す。なお、図 1 (b) ～ 図 1 (d) において、第 1 レーンは精製時の目的フラクションを含むタンパク質、M はマーカーレーンを表す。図 1 (b) には、K I A A 0 8 4 9 タンパク質 (454～554) に対応する位置にバンドが見られる。このことから、実施例 2 において、

K I A A 0 8 4 9 タンパク質 (454~554) が発現したことがわかる。また、図 1 (b) と同様にして、図 1 (c) から、実施例 3 において、K I A A 0 8 4 9 タンパク質 (454~559) が発現したことがわかる。さらに、図 1 (d) から実施例 4 において、K I A A 0 8 4 9 タンパク質 (464~559) が発現したことがわかる。

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### [比較例 1 ~ 3]

上述のようにして作成したコンストラクトのうち、K I A A 0 8 4 9 タンパク質のアミノ酸残基番号 4 7 4 番目から 5 3 9 番目のアミノ酸配列を有するポリペプチド a (比較例 1)、アミノ酸残基番号 4 5 4 番目から 5 3 9 番目のアミノ酸配列を有するポリペプチド b (比較例 2)、及びアミノ酸残基番号 4 5 4 番目から 5 4 9 番目のアミノ酸配列を有するポリペプチド c (比較例 3) について、上述の実施例 1 と同様にして発現ベクターを構築し、得られた直鎖状二本鎖 DNA 断片を鋳型 DNA としてタンパク質合成を行った。この際、実施例 1 における第 1 次 PCR に用いた各種プライマーとしては、本比較例に適したものとして設計したアミノ酸配列のものに代えた。

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そして、得られた試料について、SDS ゲル電気泳動により発現状態の判定を行った。図 2 に比較例における SDS ゲル電気泳動図を示す。図 2 (a) は比較例 1 の SDS ゲル電気泳動図を示し、図 2 (b) は比較例 2 の SDS ゲル電気泳動図を示し、図 2 (c) は比較例 3 の SDS ゲル電気泳動図を示す。なお、第 1 レーンは生成物全体を表し、第 2 レーンは上清、M はマーカーレーンを表す。

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図 2 (a) において、ポリペプチド a のアミノ酸配列から推定される分子量である MW = 1 1. 1 k D a の位置にバンドが現れていない。したがって、図 2 (a) から、比較例 1 においては、目的とするタンパク質が発現しなかったことがわかる。

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また、図 2 (b) においても、ポリペプチド b のアミノ酸配列から推定される分子量である 1 3. 1 k D a の位置にバンドが現れていない。したがって、図 2 (b) から、比較例 2 においては、目的とするタンパク質が発現しなかったことがわかる。

次に図 2 (c) においては、ポリペプチド c のアミノ酸配列から推定される分

子量である 14.2 kDa に対応する位置よりも、上側にバンドが現れた。したがって、図 2 (c) から、比較例 3 では、目的とするタンパク質が良好な発現状態で得られていないことがわかる。

## 5 [実施例 5]

上記の実施例 1～4 の各種目的タンパク質（配列番号 1、配列番号 3、配列番号 5、配列番号 7 に記載されたタンパク質）について、構造安定性を評価した。

### (1) $^{15}\text{N}$ 標識ドメインの精製

10 まず、上記の実施例 1～4 の各種目的タンパク質の精製を行った。

$^{15}\text{N}$  標識ドメインタンパク質の精製には、ヒスチジントグとニッケルの親和性を利用した。精製に関する操作を、4℃ の温度環境の下で行った。合成反応終了後、3 ml の反応液を 4.2 ml の洗浄緩衝液 [50 mM リン酸ナトリウム (pH 8.0) / 300 mM 塩化ナトリウム / 10 mM イミダゾール] で希釈、回収し、1960×g、5 分間遠心して沈殿  
15 を取り除いた。次に、得た上清を 0.8 ml の Ni-NTA 樹脂 (キアゲン社) に通して吸着させ、9.6 ml の洗浄緩衝液を通すことで夾雑物を除去した。最後に 4 ml の溶出緩衝液 [50 mM リン酸ナトリウム (pH 8.0) / 300 mM 塩化ナトリウム / 500 mM イミダゾール] を通すことで、サンプルを樹脂から遊離させた。以上の手順により、0.88 mg の精製サンプルを得た。

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### (2) 構造安定性評価のための試料調製

精製サンプルを NMR 測定に適した溶媒にするために、20 mM リン酸ナトリウム (pH 6.0) / 100 mM 塩化ナトリウム溶液に置換した。その後、サンプルを 0.25 ml (サンプル濃度 0.28 mM) になるまで濃縮した。以上の操作を、限外ろ過装置 (ピバスピン 2; ザルトリウス社) を用いて行った。最後に 0.03 ml の重水を濃縮したサンプルに添加して、構造安定性評価用試料とした。

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### (3) NMR 測定による構造安定性評価

NMR 測定用のサンプル管として、シゲミ社の対称型マイクロ試料管 (5 mm プロー

ブ用)を用いた。NMR測定は、600 MHzのNMR装置(Avance600; ブルカー社)で、温度25℃のもとで行った。判定には、 $^1\text{H}$ の1次元スペクトル(以後1Dスペクトルと略記)、および $^1\text{H}$ - $^{15}\text{N}$  2次元HSQCスペクトル(以後 $^{15}\text{N}$ -HSQCスペクトルと略記)を用いた。その条件は下表6のとおりであった。NMR測定結果を図3～図6に示す。

[表6] 構造安定性評価のためのNMR測定条件

スペクトル	積算回数	中心周波数	スペクトル幅	データポイント 数
1D	128	$^1\text{H}$ : 2822 Hz	$^1\text{H}$ : 8013 Hz	$^1\text{H}$ : 8192
$^{15}\text{N}$ HSQC	16	$^1\text{H}$ : 2822 Hz $^{15}\text{N}$ : 7085 Hz	$^1\text{H}$ : 8013 Hz $^{15}\text{N}$ : 2190 Hz	$^1\text{H}$ : 2048 $^{15}\text{N}$ : 128

図3～図6は、それぞれ配列番号1、配列番号3、配列番号5、配列番号7に記載されたタンパク質の1次元核磁気共鳴スペクトルと $^1\text{H}$ - $^{15}\text{N}$  HSQCスペクトルを示す。なお、図3～図6において、図(a)は、1次元核磁気共鳴スペクトルを表し、図(b)は、 $^1\text{H}$ - $^{15}\text{N}$  HSQCスペクトルを表す。

図3(a)～図6(a)には、1次元核磁気共鳴スペクトルのメチル領域の高磁場側(0.7ppmから-0.5ppm付近)に、高磁場シフトしたシグナルが認められた。また、図3(b)～図6(b)には、 $^{15}\text{N}$ -HSQCスペクトルには、7ppmから9ppmにわたって分離したアミドプロトンのシグナルが認められた。

これらのシグナルの現れ方は、安定な立体構造を形成しているタンパク質に特徴的なシグナルの現れ方であることから、上記実施例1～4で得られた各タンパク質は安定な立体構造を形成していると判定した。

以上のように、上記の実施例1～4においては、全長K I A A 0 8 4 9タンパク質からコンピュータによりタンパク質の構造・機能を有する構成要素(ドメイン)のアミノ酸配列を予測して、予測した領域を基準として種々のコンストラクトを全て作成してタンパク質発現を行い、実際に取得したタンパク質をSDSゲル電

気泳動でその発現状態を確認した。さらに安定な立体構造を有するか否かをNMRの測定結果に基づいて評価し、全てのタンパク質について優れた構造安定性を確認した。

したがって、本実施例により、実際に安定な立体構造をもつ（フォールドする）CAP-Gly様ドメインのアミノ酸配列を正確に決定できたことが確認された。

また、このような分子量の小さい、ドメインを形成するタンパク質を用いることで、精度の高い立体構造解析を比較的容易に行うことが可能となった。

そこで、実施例1のKIAA0849タンパク質（464～554）：配列番号1に示されるアミノ酸配列を有するCAP-Gly様ドメインタンパク質を用いて、以下のようにして立体構造解析を行った。

#### [実施例6]

ヒトターバン腫瘍症候群に関与するガン抑制遺伝子（KIAA0849）産物に含まれるCAP-Gly様ドメインタンパク質のNMRによる構造決定

##### （1） $^{13}\text{C}/^{15}\text{N}$ 標識ドメインの精製

全ての炭素核および窒素核をそれぞれ安定同位体である炭素13、窒素15により置換した配列番号20に記載されたタンパク質を、上述の無細胞タンパク質発現系により作成した。配列番号20に記載されたタンパク質は、配列番号1に記載されたタンパク質のN末端にGSSGSSG、C末端にSGPSSGで表されるアミノ酸残基を付加したものであり、これらの付加配列は立体構造には影響を与えないものである。したがって、配列番号20に記載されたタンパク質の立体構造を解析すれば、配列番号1に記載された本発明のタンパク質の立体構造に関する情報を得ることができる。

25 得られた高純度標品を高速遠心機用の限外濾過膜付タンパク質濃縮器を用いて標品濃度がおよそ0.8mMとなるまで濃縮した。その後、NMR解析用標品緩衝液により濃縮液を10倍に希釈した。この濃縮、希釈の操作を3回繰返し、標品精製の緩衝液をNMR解析用標品緩衝液に完全に置換した。用いたNMR解析用標品緩衝液の組成は、20mM リン酸ナトリウム緩衝液、100mM塩化ナトリウム、1 mM

ジチオスレイトールであり、pHは6.0であった。NMR解析用標品緩衝液に完全置換された標品の最終的な標品濃度は、およそ0.8mMであった。得られた標品を、外径5mmのNMR測定用試料管に注入した後、25℃にて2時間保存することにより安定化させた。

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## (2) NMR測定

NMR実験には、スイス・ブルカー社製DRX600およびDRX800を使用した。全ての測定を25℃の温度環境下で行った。主鎖シグナルの帰属を目的としたNMR実験として、二次元スペクトルは $^1\text{H}$ - $^{15}\text{N}$  HSQC、三次元スペクトルはHNC0、HN(CO)CA、  
10 HNCA、CBCA(CO)NH、HNCACB、HBHA(CBCACO)NH、H(CCCO)NH、C(CCCO)NH、 $^{15}\text{N}$ -edited NOESYを測定した。また、側鎖シグナルの帰属を目的としたNMR実験として、二次元スペクトルは $^1\text{H}$ - $^{13}\text{C}$  HSQC、三次元スペクトルは脂肪族系側鎖用HCCH-COSY、同HCCH-TOCSY、同 $^{13}\text{C}$ -edited NOESY、芳香族系側鎖用HCCH-COSY、同 $^{13}\text{C}$ -edited NOESYさらにHNHB、HN(CO)HBを測定した。

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## (3) 測定データの解析

測定データを、アメリカ・シリコングラフィックス社製ワークステーションオクタン (Octane) 2、およびオリジン (Origin) 3800を用いてフーリエ変換計算を行い、各二次元および三次元スペクトルを得た。得られたスペクトルデータに基づいて、アミノ酸残基における主鎖シグナルとして $\alpha$ 位および $\beta$ 位の炭素核であるC $\alpha$ とC $\beta$ 、カルボニル基の炭素核であるC'、 $\alpha$ 位および $\beta$ 位の水素核であるH $\alpha$ とH $\beta$ 、アミド基の水素核であるHN、アミド基の窒素核であるNを連鎖的に帰属した。この手法は、まずHN(CO)Ca上で隣接残基のC $\alpha$ シグナルの化学シフト値に一致するシグナルをHNCA上で検索し、自身と隣接する残基のC $\alpha$ シグナルの連鎖性を  
20 明らかにする。この操作を繰り返すことによりプロリン残基および何らかの原因でシグナルが観測できない場合を除く全てのC $\alpha$ シグナルを連鎖的に帰属できる。同様の操作を行うことにより、C(CCCO)NH、CBCA(CO)NHとHNCACBによりC $\beta$ シグナル、H(CCCO)NH、HBHA(CBCACO)NHと $^{15}\text{N}$ -edited NOESYによりH $\alpha$ 、H $\beta$ シグナル、さらにHNC0によりC'シグナルを帰属することで、より正確に帰属を行うことがで

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きる。さらに、得られた主鎖帰属情報および側鎖帰属用に測定したスペクトルデータをを用いて $\gamma$ 、 $\delta$ 、 $\varepsilon$ 、 $\zeta$ 、 $\eta$ 位の炭素核、窒素核、水素核の帰属を行う。以上の操作によりほぼ全てのアミノ酸残基に対するシグナルの帰属データを得た。また、 $^{15}\text{N}$ -edited NOESY上の1142個のシグナル、脂肪族系側鎖用 $^{13}\text{C}$ -edited NOESY  
5 上の2158個のシグナル、芳香族系側鎖用 $^{13}\text{C}$ -edited NOESY上の209個のシグナルから距離制限データを得た。主鎖帰属の際に得られた $\text{C}\alpha$ 、 $\text{C}\beta$ 、 $\text{C}'$ 、 $\text{H}\alpha$ 、 $\text{H}\beta$ 、HN、Nシグナルの化学シフト値から、ポリペプチド主鎖二面角である $\phi$ 角、および $\psi$ 角を高精度で予測するソフトウェアTALOSを用いて、42残基に対する $\phi$ 、 $\psi$ 角データを  
10 得た。さらに、HNHBおよびHN(CO)HBのシグナルパターンから35残基における側鎖二面角である $\chi$ 角のデータを得た。これらシグナルの帰属データ、距離制限データ、 $\phi$ 、 $\psi$ 、 $\chi$ 角度制限データを元に、タンパク質立体構造計算用ソフトウェアであるCNSを用いてドメイン構造の計算を行った。得られた立体構造に基づいて、供した距離制限が満たされていないNOE群を比較検討しながら最適化を行った。これを繰返すことで最終的に全ての角度制限と2667個の距離制限を用いて計算し、  
15 エネルギー的に安定した立体構造20個を得た。これら構造において二次構造を形成するアミノ酸残基部分の収斂度は、主鎖の原子団に対して0.29 Å、側鎖を含めた水素原子以外の全原子団に対しては0.76 Åであった。

#### (4) 立体構造座標

20 得られた構造座標を以下の立体構造座標1～20に示す。

以下の立体構造座標データは、プロテインデータバンク(PDB)のフォーマットに準じて記載されているものである。1列目のATOMはこの行が原子座標の行であることを示し、2列目は、その原子の順番を、3列目はアミノ酸残基等における原子の区別を、4列目はアミノ酸残基等を、5列目は配列番号20に対応したアミノ酸の番号を、6、7、8列目はその原子の座標(a軸、b軸、c軸方向の順番でÅ単位)を、9列目は、その原子の占有率(本発明においてはすべて1.00)を、10列目はその原子の温度因子を示している。最終行は、この表の終わりの行であることを示している。

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## 立体構造座標表 1

	ATOM 1	N	GLY A	1120.138	11.140	-2.903	1.00	0.00	N
	ATOM 2	CA	GLY A	1120.658	10.305	-1.785	1.00	0.00	C
	ATOM 3	C	GLY A	1120.202	8.862	-1.879	1.00	0.00	C
5	ATOM 4	O	GLY A	1119.025	8.590	-2.119	1.00	0.00	O
	ATOM 5	1H	GLY A	1120.758	11.050	-3.733	1.00	0.00	H
	ATOM 6	2H	GLY A	1120.103	12.139	-2.617	1.00	0.00	H
	ATOM 7	3H	GLY A	1119.180	10.832	-3.164	1.00	0.00	H
	ATOM 8	1HA	GLY A	1121.737	10.331	-1.802	1.00	0.00	H
10	ATOM 9	2HA	GLY A	1120.312	10.720	-0.850	1.00	0.00	H
	ATOM10	N	SER A	2121.135	7.935	-1.688	1.00	0.00	N
	ATOM11	CA	SER A	2120.822	6.512	-1.752	1.00	0.00	C
	ATOM12	C	SER A	2119.883	6.109	-0.621	1.00	0.00	C
	ATOM13	O	SER A	2119.959	6.647	0.484	1.00	0.00	O
15	ATOM14	CB	SER A	2122.107	5.683	-1.684	1.00	0.00	C
	ATOM15	OG	SER A	2122.628	5.441	-2.980	1.00	0.00	O
	ATOM16	H	SER A	2122.055	8.214	-1.500	1.00	0.00	H
	ATOM17	HA	SER A	2120.333	6.322	-2.695	1.00	0.00	H
	ATOM18	1HB	SER A	2122.846	6.217	-1.107	1.00	0.00	H
20	ATOM19	2HB	SER A	2121.896	4.735	-1.211	1.00	0.00	H
	ATOM20	HG	SER A	2122.628	6.259	-3.482	1.00	0.00	H
	ATOM21	N	SER A	3118.997	5.160	-0.902	1.00	0.00	N
	ATOM22	CA	SER A	3118.042	4.685	0.092	1.00	0.00	C
	ATOM23	C	SER A	3118.645	3.564	0.933	1.00	0.00	C
25	ATOM24	O	SER A	3118.658	2.404	0.523	1.00	0.00	O
	ATOM25	CB	SER A	3116.764	4.194	-0.591	1.00	0.00	C
	ATOM26	OG	SER A	3117.063	3.463	-1.768	1.00	0.00	O
	ATOM27	H	SER A	3118.986	4.769	-1.801	1.00	0.00	H
	ATOM28	HA	SER A	3117.798	5.513	0.739	1.00	0.00	H



	ATOM29	1HB	SER A	3116.220	3.553	0.087	1.00	0.00	H
	ATOM30	2HB	SER A	3116.152	5.044	-0.854	1.00	0.00	H
	ATOM31	HG	SER A	3117.138	4.068	-2.510	1.00	0.00	H
	ATOM32	N	GLY A	4119.143	3.920	2.114	1.00	0.00	N
5	ATOM33	CA	GLY A	4119.741	2.933	2.993	1.00	0.00	C
	ATOM34	C	GLY A	4119.727	3.367	4.446	1.00	0.00	C
	ATOM35	O	GLY A	4118.924	4.213	4.840	1.00	0.00	O
	ATOM36	H	GLY A	4119.105	4.860	2.388	1.00	0.00	H
	ATOM37	1HA	GLY A	4119.195	2.005	2.901	1.00	0.00	H
10	ATOM38	2HA	GLY A	4120.764	2.767	2.689	1.00	0.00	H
	ATOM39	N	SER A	5120.616	2.785	5.244	1.00	0.00	N
	ATOM40	CA	SER A	5120.703	3.116	6.662	1.00	0.00	C
	ATOM41	C	SER A	5122.050	3.754	6.990	1.00	0.00	C
	ATOM42	O	SER A	5122.125	4.697	7.777	1.00	0.00	O
15	ATOM43	CB	SER A	5120.499	1.861	7.513	1.00	0.00	C
	ATOM44	OG	SER A	5119.829	2.169	8.723	1.00	0.00	O
	ATOM45	H	SER A	5121.230	2.118	4.870	1.00	0.00	H
	ATOM46	HA	SER A	5119.919	3.824	6.886	1.00	0.00	H
	ATOM47	1HB	SER A	5119.907	1.147	6.961	1.00	0.00	H
20	ATOM48	2HB	SER A	5121.461	1.428	7.747	1.00	0.00	H
	ATOM49	HG	SER A	5120.475	2.376	9.402	1.00	0.00	H
	ATOM50	N	SER A	6123.109	3.233	6.381	1.00	0.00	N
	ATOM51	CA	SER A	6124.454	3.751	6.607	1.00	0.00	C
	ATOM52	C	SER A	6124.821	4.789	5.552	1.00	0.00	C
25	ATOM53	O	SER A	6124.732	4.528	4.353	1.00	0.00	O
	ATOM54	CB	SER A	6125.472	2.611	6.594	1.00	0.00	C
	ATOM55	OG	SER A	6126.514	2.846	7.526	1.00	0.00	O
	ATOM56	H	SER A	6122.985	2.481	5.763	1.00	0.00	H
	ATOM57	HA	SER A	6124.467	4.223	7.579	1.00	0.00	H

	ATOM58	1HB	SER A	6124.978	1.686	6.853	1.00	0.00	H
	ATOM59	2HB	SER A	6125.901	2.525	5.606	1.00	0.00	H
	ATOM60	HG	SER A	6126.892	2.007	7.803	1.00	0.00	H
	ATOM61	N	GLY A	7125.235	5.968	6.007	1.00	0.00	N
5	ATOM62	CA	GLY A	7125.610	7.027	5.088	1.00	0.00	C
	ATOM63	C	GLY A	7127.112	7.214	5.001	1.00	0.00	C
	ATOM64	O	GLY A	7127.869	6.243	5.033	1.00	0.00	O
	ATOM65	H	GLY A	7125.286	6.119	6.974	1.00	0.00	H
	ATOM66	1HA	GLY A	7125.230	6.788	4.107	1.00	0.00	H
10	ATOM67	2HA	GLY A	7125.161	7.951	5.421	1.00	0.00	H
	ATOM68	N	LEU A	8127.545	8.467	4.889	1.00	0.00	N
	ATOM69	CA	LEU A	8128.966	8.780	4.795	1.00	0.00	C
	ATOM70	C	LEU A	8129.559	8.221	3.505	1.00	0.00	C
	ATOM71	O	LEU A	8130.682	7.717	3.493	1.00	0.00	O
15	ATOM72	CB	LEU A	8129.719	8.220	6.004	1.00	0.00	C
	ATOM73	CG	LEU A	8129.030	8.435	7.352	1.00	0.00	C
	ATOM74	CD1	LEU A	8129.288	7.256	8.279	1.00	0.00	C
	ATOM75	CD2	LEU A	8129.506	9.731	7.991	1.00	0.00	C
	ATOM76	H	LEU A	8126.893	9.197	4.867	1.00	0.00	H
20	ATOM77	HA	LEU A	8129.068	9.855	4.786	1.00	0.00	H
	ATOM78	1HB	LEU A	8129.853	7.157	5.856	1.00	0.00	H
	ATOM79	2HB	LEU A	8130.692	8.685	6.043	1.00	0.00	H
	ATOM80	HG	LEU A	8127.964	8.510	7.196	1.00	0.00	H
	ATOM81	1HD1	LEU A	8129.004	7.522	9.286	1.00	0.00	H
25	ATOM82	2HD1	LEU A	8130.337	7.002	8.254	1.00	0.00	H
	ATOM83	3HD1	LEU A	8128.704	6.408	7.952	1.00	0.00	H
	ATOM84	1HD2	LEU A	8130.301	9.516	8.691	1.00	0.00	H
	ATOM85	2HD2	LEU A	8128.684	10.199	8.512	1.00	0.00	H
	ATOM86	3HD2	LEU A	8129.872	10.397	7.224	1.00	0.00	H

	ATOM87	N	ALA	A	9128.795	8.314	2.423	1.00	0.00	N	
	ATOM88	CA	ALA	A	9129.241	7.818	1.128	1.00	0.00	C	
	ATOM89	C	ALA	A	9129.592	8.968	0.192	1.00	0.00	C	
	ATOM90	O	ALA	A	9128.799	9.890	0.000	1.00	0.00	O	
5	ATOM91	CB	ALA	A	9128.171	6.934	0.504	1.00	0.00	C	
	ATOM92	H	ALA	A	9127.908	8.725	2.497	1.00	0.00	H	
	ATOM93	HA	ALA	A	9130.123	7.216	1.289	1.00	0.00	H	
	ATOM94	1HB	ALA	A	9127.782	6.258	1.251	1.00	0.00	H	
	ATOM95	2HB	ALA	A	9128.602	6.365	-0.308	1.00	0.00	H	
10	ATOM96	3HB	ALA	A	9127.369	7.552	0.126	1.00	0.00	H	
	ATOM97	N	MET	A	10130.785	8.908	-0.389	1.00	0.00	N	
	ATOM98	CA	MET	A	10131.242	9.945	-1.306	1.00	0.00	C	
	ATOM99	C	MET	A	10131.920	9.331	-2.528	1.00	0.00	C	
	ATOM	100	O	MET	A	10133.135	9.442	-2.697	1.00	0.00	O
15	ATOM	101	CB	MET	A	10132.206	10.896	-0.594	1.00	0.00	C
	ATOM	102	CG	MET	A	10131.568	11.663	0.553	1.00	0.00	C
	ATOM	103	SD	MET	A	10132.377	13.245	0.863	1.00	0.00	S
	ATOM	104	CE	MET	A	10132.247	14.013	-0.751	1.00	0.00	C
	ATOM	105	H	MET	A	10131.373	8.148	-0.197	1.00	0.00	H
20	ATOM	106	HA	MET	A	10130.376	10.503	-1.632	1.00	0.00	H
	ATOM	107	1HB	MET	A	10133.031	10.321	-0.200	1.00	0.00	H
	ATOM	108	2HB	MET	A	10132.585	11.609	-1.310	1.00	0.00	H
	ATOM	109	1HG	MET	A	10130.531	11.846	0.314	1.00	0.00	H
	ATOM	110	2HG	MET	A	10131.629	11.062	1.448	1.00	0.00	H
25	ATOM	111	1HE	MET	A	10133.228	14.073	-1.200	1.00	0.00	H
	ATOM	112	2HE	MET	A	10131.839	15.007	-0.644	1.00	0.00	H
	ATOM	113	3HE	MET	A	10131.598	13.422	-1.380	1.00	0.00	H
	ATOM	114	N	PRO	A	11131.139	8.673	-3.402	1.00	0.00	N
	ATOM	115	CA	PRO	A	11131.671	8.043	-4.613	1.00	0.00	C

	ATOM	116	C	PRO A	11132.451	9.024	-5.486	1.00	0.00	C
	ATOM	117	O	PRO A	11133.544	8.709	-5.957	1.00	0.00	O
	ATOM	118	CB	PRO A	11130.423	7.547	-5.350	1.00	0.00	C
	ATOM	119	CG	PRO A	11129.365	7.447	-4.304	1.00	0.00	C
5	ATOM	120	CD	PRO A	11129.682	8.497	-3.277	1.00	0.00	C
	ATOM	121	HA	PRO A	11132.304	7.202	-4.372	1.00	0.00	H
	ATOM	122	1HB	PRO A	11130.152	8.253	-6.120	1.00	0.00	H
	ATOM	123	2HB	PRO A	11130.626	6.585	-5.795	1.00	0.00	H
	ATOM	124	1HG	PRO A	11128.400	7.638	-4.744	1.00	0.00	H
10	ATOM	125	2HG	PRO A	11129.387	6.466	-3.855	1.00	0.00	H
	ATOM	126	1HD	PRO A	11129.162	9.416	-3.504	1.00	0.00	H
	ATOM	127	2HD	PRO A	11129.421	8.149	-2.288	1.00	0.00	H
	ATOM	128	N	PRO A	12131.907	10.235	-5.713	1.00	0.00	N
	ATOM	129	CA	PRO A	12132.573	11.253	-6.531	1.00	0.00	C
15	ATOM	130	C	PRO A	12133.937	11.637	-5.966	1.00	0.00	C
	ATOM	131	O	PRO A	12134.781	12.188	-6.673	1.00	0.00	O
	ATOM	132	CB	PRO A	12131.618	12.453	-6.477	1.00	0.00	C
	ATOM	133	CG	PRO A	12130.301	11.882	-6.078	1.00	0.00	C
	ATOM	134	CD	PRO A	12130.613	10.712	-5.191	1.00	0.00	C
20	ATOM	135	HA	PRO A	12132.688	10.926	-7.553	1.00	0.00	H
	ATOM	136	1HB	PRO A	12131.975	13.167	-5.750	1.00	0.00	H
	ATOM	137	2HB	PRO A	12131.566	12.918	-7.451	1.00	0.00	H
	ATOM	138	1HG	PRO A	12129.729	12.621	-5.537	1.00	0.00	H
	ATOM	139	2HG	PRO A	12129.761	11.555	-6.954	1.00	0.00	H
25	ATOM	140	1HD	PRO A	12130.705	11.030	-4.163	1.00	0.00	H
	ATOM	141	2HD	PRO A	12129.854	9.952	-5.287	1.00	0.00	H
	ATOM	142	N	GLY A	13134.145	11.341	-4.687	1.00	0.00	N
	ATOM	143	CA	GLY A	13135.408	11.661	-4.048	1.00	0.00	C
	ATOM	144	C	GLY A	13136.522	10.720	-4.461	1.00	0.00	C

	ATOM	145	O	GLY A	13137.189	10.944	-5.472	1.00	0.00	O
	ATOM	146	H	GLY A	13133.435	10.900	-4.171	1.00	0.00	H
	ATOM	147	1HA	GLY A	13135.687	12.670	-4.313	1.00	0.00	H
	ATOM	148	2HA	GLY A	13135.282	11.603	-2.977	1.00	0.00	H
5	ATOM	149	N	ASN A	14136.723	9.665	-3.678	1.00	0.00	N
	ATOM	150	CA	ASN A	14137.765	8.687	-3.969	1.00	0.00	C
	ATOM	151	C	ASN A	14137.162	7.396	-4.514	1.00	0.00	C
	ATOM	152	O	ASN A	14137.556	6.914	-5.575	1.00	0.00	O
	ATOM	153	CB	ASN A	14138.580	8.389	-2.709	1.00	0.00	C
10	ATOM	154	CG	ASN A	14139.257	9.626	-2.152	1.00	0.00	C
	ATOM	155	OD1	ASN A	14140.304	10.048	-2.643	1.00	0.00	O
	ATOM	156	ND2	ASN A	14138.660	10.215	-1.122	1.00	0.00	N
	ATOM	157	H	ASN A	14136.159	9.542	-2.887	1.00	0.00	H
	ATOM	158	HA	ASN A	14138.418	9.109	-4.718	1.00	0.00	H
15	ATOM	159	1HB	ASN A	14137.925	7.988	-1.950	1.00	0.00	H
	ATOM	160	2HB	ASN A	14139.341	7.660	-2.944	1.00	0.00	H
	ATOM	161	1HD2	ASN A	14137.829	9.823	-0.784	1.00	0.00	H
	ATOM	162	2HD2	ASN A	14139.076	11.018	-0.744	1.00	0.00	H
	ATOM	163	N	SER A	15136.202	6.842	-3.779	1.00	0.00	N
20	ATOM	164	CA	SER A	15135.544	5.607	-4.189	1.00	0.00	C
	ATOM	165	C	SER A	15134.436	5.233	-3.208	1.00	0.00	C
	ATOM	166	O	SER A	15133.344	4.832	-3.612	1.00	0.00	O
	ATOM	167	CB	SER A	15136.561	4.468	-4.286	1.00	0.00	C
	ATOM	168	OG	SER A	15137.099	4.375	-5.592	1.00	0.00	O
25	ATOM	169	H	SER A	15135.930	7.274	-2.943	1.00	0.00	H
	ATOM	170	HA	SER A	15135.106	5.770	-5.163	1.00	0.00	H
	ATOM	171	1HB	SER A	15137.366	4.649	-3.590	1.00	0.00	H
	ATOM	172	2HB	SER A	15136.076	3.535	-4.041	1.00	0.00	H
	ATOM	173	HG	SER A	15136.766	3.582	-6.020	1.00	0.00	H

	ATOM	174	N	HIS A	16134.726	5.365	-1.919	1.00	0.00	N
	ATOM	175	CA	HIS A	16133.756	5.041	-0.879	1.00	0.00	C
	ATOM	176	C	HIS A	16134.196	5.603	0.468	1.00	0.00	C
	ATOM	177	O	HIS A	16133.479	6.389	1.089	1.00	0.00	O
5	ATOM	178	CB	HIS A	16133.574	3.525	-0.778	1.00	0.00	C
	ATOM	179	CG	HIS A	16132.466	2.998	-1.636	1.00	0.00	C
	ATOM	180	ND1	HIS A	16131.131	3.188	-1.343	1.00	0.00	N
	ATOM	181	CD2	HIS A	16132.499	2.283	-2.786	1.00	0.00	C
	ATOM	182	CE1	HIS A	16130.392	2.611	-2.275	1.00	0.00	C
10	ATOM	183	NE2	HIS A	16131.198	2.057	-3.162	1.00	0.00	N
	ATOM	184	H	HIS A	16135.614	5.688	-1.660	1.00	0.00	H
	ATOM	185	HA	HIS A	16132.814	5.491	-1.153	1.00	0.00	H
	ATOM	186	1HB	HIS A	16134.489	3.038	-1.081	1.00	0.00	H
	ATOM	187	2HB	HIS A	16133.355	3.264	0.247	1.00	0.00	H
15	ATOM	188	HD1	HIS A	16130.779	3.672	-0.567	1.00	0.00	H
	ATOM	189	HD2	HIS A	16133.384	1.952	-3.310	1.00	0.00	H
	ATOM	190	HE1	HIS A	16129.313	2.598	-2.306	1.00	0.00	H
	ATOM	191	HE2	HIS A	16130.911	1.498	-3.913	1.00	0.00	H
	ATOM	192	N	GLY A	17135.381	5.198	0.914	1.00	0.00	N
20	ATOM	193	CA	GLY A	17135.896	5.673	2.185	1.00	0.00	C
	ATOM	194	C	GLY A	17137.255	5.085	2.515	1.00	0.00	C
	ATOM	195	O	GLY A	17137.399	4.345	3.488	1.00	0.00	O
	ATOM	196	H	GLY A	17135.909	4.572	0.377	1.00	0.00	H
	ATOM	197	1HA	GLY A	17135.981	6.748	2.148	1.00	0.00	H
25	ATOM	198	2HA	GLY A	17135.201	5.403	2.967	1.00	0.00	H
	ATOM	199	N	LEU A	18138.253	5.417	1.703	1.00	0.00	N
	ATOM	200	CA	LEU A	18139.607	4.918	1.913	1.00	0.00	C
	ATOM	201	C	LEU A	18140.527	6.030	2.407	1.00	0.00	C
	ATOM	202	O	LEU A	18140.851	6.956	1.663	1.00	0.00	O

	ATOM	203	CB	LEU A	18140.160	4.320	0.618	1.00	0.00	C
	ATOM	204	CG	LEU A	18139.326	3.186	0.021	1.00	0.00	C
	ATOM	205	CD1	LEU A	18139.476	3.153	-1.493	1.00	0.00	C
	ATOM	206	CD2	LEU A	18139.730	1.851	0.628	1.00	0.00	C
5	ATOM	207	H	LEU A	18138.075	6.012	0.944	1.00	0.00	H
	ATOM	208	HA	LEU A	18139.562	4.144	2.665	1.00	0.00	H
	ATOM	209	1HB	LEU A	18140.234	5.111	-0.115	1.00	0.00	H
	ATOM	210	2HB	LEU A	18141.151	3.942	0.815	1.00	0.00	H
	ATOM	211	HG	LEU A	18138.283	3.356	0.248	1.00	0.00	H
10	ATOM	212	1HD1	LEU A	18139.372	2.136	-1.842	1.00	0.00	H
	ATOM	213	2HD1	LEU A	18140.451	3.528	-1.766	1.00	0.00	H
	ATOM	214	3HD1	LEU A	18138.713	3.768	-1.944	1.00	0.00	H
	ATOM	215	1HD2	LEU A	18140.757	1.903	0.959	1.00	0.00	H
	ATOM	216	2HD2	LEU A	18139.629	1.073	-0.113	1.00	0.00	H
15	ATOM	217	3HD2	LEU A	18139.092	1.630	1.471	1.00	0.00	H
	ATOM	218	N	GLU A	19140.945	5.931	3.664	1.00	0.00	N
	ATOM	219	CA	GLU A	19141.830	6.927	4.257	1.00	0.00	C
	ATOM	220	C	GLU A	19142.859	6.267	5.168	1.00	0.00	C
	ATOM	221	O	GLU A	19142.811	5.059	5.403	1.00	0.00	O
20	ATOM	222	CB	GLU A	19141.017	7.954	5.047	1.00	0.00	C
	ATOM	223	CG	GLU A	19140.018	7.331	6.010	1.00	0.00	C
	ATOM	224	CD	GLU A	19138.580	7.626	5.632	1.00	0.00	C
	ATOM	225	OE1	GLU A	19138.293	8.777	5.240	1.00	0.00	O
	ATOM	226	OE2	GLU A	19137.741	6.705	5.727	1.00	0.00	O
25	ATOM	227	H	GLU A	19140.653	5.168	4.207	1.00	0.00	H
	ATOM	228	HA	GLU A	19142.347	7.431	3.454	1.00	0.00	H
	ATOM	229	1HB	GLU A	19141.696	8.573	5.617	1.00	0.00	H
	ATOM	230	2HB	GLU A	19140.474	8.579	4.353	1.00	0.00	H
	ATOM	231	1HG	GLU A	19140.161	6.261	6.013	1.00	0.00	H

	ATOM	232	2HG	GLU A	19140.202	7.721	7.000	1.00	0.00	H
	ATOM	233	N	VAL A	20143.791	7.066	5.679	1.00	0.00	N
	ATOM	234	CA	VAL A	20144.831	6.559	6.564	1.00	0.00	C
	ATOM	235	C	VAL A	20144.232	5.988	7.845	1.00	0.00	C
5	ATOM	236	O	VAL A	20143.373	6.610	8.471	1.00	0.00	O
	ATOM	237	CB	VAL A	20145.845	7.660	6.930	1.00	0.00	C
	ATOM	238	CG1	VAL A	20147.003	7.079	7.729	1.00	0.00	C
	ATOM	239	CG2	VAL A	20146.352	8.359	5.677	1.00	0.00	C
	ATOM	240	H	VAL A	20143.776	8.020	5.455	1.00	0.00	H
10	ATOM	241	HA	VAL A	20145.358	5.773	6.043	1.00	0.00	H
	ATOM	242	HB	VAL A	20145.345	8.392	7.547	1.00	0.00	H
	ATOM	243	1HG1	VAL A	20147.813	7.792	7.760	1.00	0.00	H
	ATOM	244	2HG1	VAL A	20147.342	6.167	7.260	1.00	0.00	H
	ATOM	245	3HG1	VAL A	20146.674	6.864	8.735	1.00	0.00	H
15	ATOM	246	1HG2	VAL A	20146.407	9.423	5.856	1.00	0.00	H
	ATOM	247	2HG2	VAL A	20145.676	8.167	4.858	1.00	0.00	H
	ATOM	248	3HG2	VAL A	20147.335	7.985	5.429	1.00	0.00	H
	ATOM	249	N	GLY A	21144.691	4.802	8.230	1.00	0.00	N
	ATOM	250	CA	GLY A	21144.189	4.168	9.435	1.00	0.00	C
20	ATOM	251	C	GLY A	21143.139	3.114	9.141	1.00	0.00	C
	ATOM	252	O	GLY A	21142.996	2.145	9.887	1.00	0.00	O
	ATOM	253	H	GLY A	21145.376	4.354	7.691	1.00	0.00	H
	ATOM	254	1HA	GLY A	21145.013	3.703	9.954	1.00	0.00	H
	ATOM	255	2HA	GLY A	21143.756	4.923	10.072	1.00	0.00	H
25	ATOM	256	N	SER A	22142.400	3.304	8.051	1.00	0.00	N
	ATOM	257	CA	SER A	22141.358	2.363	7.661	1.00	0.00	C
	ATOM	258	C	SER A	22141.934	1.233	6.815	1.00	0.00	C
	ATOM	259	O	SER A	22142.916	1.420	6.095	1.00	0.00	O
	ATOM	260	CB	SER A	22140.255	3.084	6.886	1.00	0.00	C



	ATOM	261	OG	SER A	22139.291	3.639	7.764	1.00	0.00	O
	ATOM	262	H	SER A	22142.561	4.097	7.498	1.00	0.00	H
	ATOM	263	HA	SER A	22140.936	1.943	8.563	1.00	0.00	H
	ATOM	264	1HB	SER A	22140.690	3.882	6.302	1.00	0.00	H
5	ATOM	265	2HB	SER A	22139.763	2.384	6.227	1.00	0.00	H
	ATOM	266	HG	SER A	22139.736	4.075	8.494	1.00	0.00	H
	ATOM	267	N	LEU A	23141.319	0.059	6.906	1.00	0.00	N
	ATOM	268	CA	LEU A	23141.771	-1.103	6.149	1.00	0.00	C
	ATOM	269	C	LEU A	23141.219	-1.074	4.727	1.00	0.00	C
10	ATOM	270	O	LEU A	23140.087	-0.646	4.499	1.00	0.00	O
	ATOM	271	CB	LEU A	23141.341	-2.394	6.849	1.00	0.00	C
	ATOM	272	CG	LEU A	23142.012	-2.651	8.199	1.00	0.00	C
	ATOM	273	CD1	LEU A	23141.094	-3.458	9.106	1.00	0.00	C
	ATOM	274	CD2	LEU A	23143.339	-3.369	8.005	1.00	0.00	C
15	ATOM	275	H	LEU A	23140.542	-0.029	7.497	1.00	0.00	H
	ATOM	276	HA	LEU A	23142.849	-1.070	6.104	1.00	0.00	H
	ATOM	277	1HB	LEU A	23140.273	-2.356	7.002	1.00	0.00	H
	ATOM	278	2HB	LEU A	23141.566	-3.224	6.197	1.00	0.00	H
	ATOM	279	HG	LEU A	23142.211	-1.706	8.682	1.00	0.00	H
20	ATOM	280	1HD1	LEU A	23140.445	-4.074	8.503	1.00	0.00	H
	ATOM	281	2HD1	LEU A	23140.499	-2.784	9.705	1.00	0.00	H
	ATOM	282	3HD1	LEU A	23141.689	-4.085	9.753	1.00	0.00	H
	ATOM	283	1HD2	LEU A	23143.169	-4.436	7.969	1.00	0.00	H
	ATOM	284	2HD2	LEU A	23143.997	-3.138	8.830	1.00	0.00	H
25	ATOM	285	3HD2	LEU A	23143.792	-3.046	7.080	1.00	0.00	H
	ATOM	286	N	ALA A	24142.025	-1.531	3.776	1.00	0.00	N
	ATOM	287	CA	ALA A	24141.617	-1.558	2.376	1.00	0.00	C
	ATOM	288	C	ALA A	24142.162	-2.794	1.669	1.00	0.00	C
	ATOM	289	O	ALA A	24143.002	-3.511	2.211	1.00	0.00	O

	ATOM	290	CB	ALA A	24142.082	-0.294	1.668	1.00	0.00	C
	ATOM	291	H	ALA A	24142.916	-1.859	4.019	1.00	0.00	H
	ATOM	292	HA	ALA A	24140.538	-1.584	2.345	1.00	0.00	H
	ATOM	293	1HB	ALA A	24143.093	-0.432	1.314	1.00	0.00	H
5	ATOM	294	2HB	ALA A	24142.051	0.537	2.357	1.00	0.00	H
	ATOM	295	3HB	ALA A	24141.432	-0.091	0.830	1.00	0.00	H
	ATOM	296	N	GLU A	25141.678	-3.036	0.456	1.00	0.00	N
	ATOM	297	CA	GLU A	25142.117	-4.186	-0.326	1.00	0.00	C
	ATOM	298	C	GLU A	25142.455	-3.774	-1.756	1.00	0.00	C
10	ATOM	299	O	GLU A	25141.823	-2.884	-2.323	1.00	0.00	O
	ATOM	300	CB	GLU A	25141.032	-5.265	-0.338	1.00	0.00	C
	ATOM	301	CG	GLU A	25141.479	-6.569	-0.978	1.00	0.00	C
	ATOM	302	CD	GLU A	25140.325	-7.520	-1.231	1.00	0.00	C
	ATOM	303	OE1	GLU A	25140.422	-8.335	-2.172	1.00	0.00	O
15	ATOM	304	OE2	GLU A	25139.324	-7.450	-0.486	1.00	0.00	O
	ATOM	305	H	GLU A	25141.010	-2.427	0.076	1.00	0.00	H
	ATOM	306	HA	GLU A	25143.004	-4.585	0.140	1.00	0.00	H
	ATOM	307	1HB	GLU A	25140.736	-5.472	0.680	1.00	0.00	H
	ATOM	308	2HB	GLU A	25140.178	-4.896	-0.885	1.00	0.00	H
20	ATOM	309	1HG	GLU A	25141.955	-6.348	-1.921	1.00	0.00	H
	ATOM	310	2HG	GLU A	25142.188	-7.053	-0.323	1.00	0.00	H
	ATOM	311	N	VAL A	26143.459	-4.429	-2.333	1.00	0.00	N
	ATOM	312	CA	VAL A	26143.882	-4.131	-3.695	1.00	0.00	C
	ATOM	313	C	VAL A	26143.519	-5.267	-4.644	1.00	0.00	C
25	ATOM	314	O	VAL A	26143.657	-6.442	-4.305	1.00	0.00	O
	ATOM	315	CB	VAL A	26145.400	-3.881	-3.770	1.00	0.00	C
	ATOM	316	CG1	VAL A	26145.791	-3.373	-5.149	1.00	0.00	C
	ATOM	317	CG2	VAL A	26145.833	-2.901	-2.690	1.00	0.00	C
	ATOM	318	H	VAL A	26143.925	-5.129	-1.829	1.00	0.00	H

	ATOM	319	HA	VAL A	26143.374	-3.233	-4.014	1.00	0.00	H
	ATOM	320	HB	VAL A	26145.908	-4.819	-3.600	1.00	0.00	H
	ATOM	321	1HG1	VAL A	26145.889	-2.297	-5.123	1.00	0.00	H
	ATOM	322	2HG1	VAL A	26145.030	-3.648	-5.864	1.00	0.00	H
5	ATOM	323	3HG1	VAL A	26146.734	-3.812	-5.440	1.00	0.00	H
	ATOM	324	1HG2	VAL A	26145.367	-3.169	-1.753	1.00	0.00	H
	ATOM	325	2HG2	VAL A	26145.533	-1.902	-2.968	1.00	0.00	H
	ATOM	326	3HG2	VAL A	26146.907	-2.938	-2.582	1.00	0.00	H
	ATOM	327	N	LYS A	27143.052	-4.909	-5.837	1.00	0.00	N
10	ATOM	328	CA	LYS A	27142.669	-5.900	-6.836	1.00	0.00	C
	ATOM	329	C	LYS A	27143.868	-6.308	-7.685	1.00	0.00	C
	ATOM	330	O	LYS A	27144.189	-5.657	-8.680	1.00	0.00	O
	ATOM	331	CB	LYS A	27141.557	-5.347	-7.731	1.00	0.00	C
	ATOM	332	CG	LYS A	27140.454	-6.352	-8.020	1.00	0.00	C
15	ATOM	333	CD	LYS A	27139.652	-6.674	-6.770	1.00	0.00	C
	ATOM	334	CE	LYS A	27138.931	-5.445	-6.239	1.00	0.00	C
	ATOM	335	NZ	LYS A	27139.738	-4.727	-5.213	1.00	0.00	N
	ATOM	336	H	LYS A	27142.964	-3.957	-6.049	1.00	0.00	H
	ATOM	337	HA	LYS A	27142.299	-6.770	-6.315	1.00	0.00	H
20	ATOM	338	1HB	LYS A	27141.115	-4.489	-7.248	1.00	0.00	H
	ATOM	339	2HB	LYS A	27141.988	-5.037	-8.672	1.00	0.00	H
	ATOM	340	1HG	LYS A	27139.790	-5.939	-8.765	1.00	0.00	H
	ATOM	341	2HG	LYS A	27140.898	-7.262	-8.397	1.00	0.00	H
	ATOM	342	1HD	LYS A	27138.922	-7.433	-7.007	1.00	0.00	H
25	ATOM	343	2HD	LYS A	27140.324	-7.043	-6.008	1.00	0.00	H
	ATOM	344	1HE	LYS A	27138.735	-4.775	-7.063	1.00	0.00	H
	ATOM	345	2HE	LYS A	27137.996	-5.755	-5.797	1.00	0.00	H
	ATOM	346	1HZ	LYS A	27140.748	-4.947	-5.335	1.00	0.00	H
	ATOM	347	2HZ	LYS A	27139.443	-5.018	-4.260	1.00	0.00	H

	ATOM	348	3HZ	LYS A	27139.603	-3.701	-5.308	1.00	0.00	H
	ATOM	349	N	GLU A	28144.529	-7.390	-7.286	1.00	0.00	N
	ATOM	350	CA	GLU A	28145.694	-7.886	-8.010	1.00	0.00	C
	ATOM	351	C	GLU A	28145.709	-9.411	-8.036	1.00	0.00	C
5	ATOM	352	O	GLU A	28144.797	-10.059	-7.525	1.00	0.00	O
	ATOM	353	CB	GLU A	28146.980	-7.360	-7.368	1.00	0.00	C
	ATOM	354	CG	GLU A	28147.981	-6.812	-8.372	1.00	0.00	C
	ATOM	355	CD	GLU A	28149.350	-6.580	-7.762	1.00	0.00	C
	ATOM	356	OE1	GLU A	28149.538	-5.534	-7.106	1.00	0.00	O
10	ATOM	357	OE2	GLU A	28150.233	-7.446	-7.941	1.00	0.00	O
	ATOM	358	H	GLU A	28144.225	-7.867	-6.485	1.00	0.00	H
	ATOM	359	HA	GLU A	28145.633	-7.520	-9.024	1.00	0.00	H
	ATOM	360	1HB	GLU A	28146.727	-6.570	-6.677	1.00	0.00	H
	ATOM	361	2HB	GLU A	28147.453	-8.164	-6.824	1.00	0.00	H
15	ATOM	362	1HG	GLU A	28148.080	-7.517	-9.183	1.00	0.00	H
	ATOM	363	2HG	GLU A	28147.609	-5.873	-8.755	1.00	0.00	H
	ATOM	364	N	ASN A	29146.752	-9.977	-8.635	1.00	0.00	N
	ATOM	365	CA	ASN A	29146.886	-11.426	-8.726	1.00	0.00	C
	ATOM	366	C	ASN A	29146.958	-12.052	-7.335	1.00	0.00	C
20	ATOM	367	O	ASN A	29146.123	-12.880	-6.974	1.00	0.00	O
	ATOM	368	CB	ASN A	29148.133	-11.794	-9.533	1.00	0.00	C
	ATOM	369	CG	ASN A	29147.812	-12.105	-10.982	1.00	0.00	C
	ATOM	370	OD1	ASN A	29147.758	-13.268	-11.382	1.00	0.00	O
	ATOM	371	ND2	ASN A	29147.598	-11.063	-11.777	1.00	0.00	N
25	ATOM	372	H	ASN A	29147.448	-9.407	-9.023	1.00	0.00	H
	ATOM	373	HA	ASN A	29146.013	-11.808	-9.235	1.00	0.00	H
	ATOM	374	1HB	ASN A	29148.828	-10.969	-9.507	1.00	0.00	H
	ATOM	375	2HB	ASN A	29148.597	-12.664	-9.092	1.00	0.00	H
	ATOM	376	1HD2	ASN A	29147.658	-10.166	-11.389	1.00	0.00	H

	ATOM	377	2HD2	ASN	A	29147.388	-11.235	-12.719	1.00	0.00	H
	ATOM	378	N	PRO	A	30147.964	-11.661	-6.533	1.00	0.00	N
	ATOM	379	CA	PRO	A	30148.142	-12.186	-5.177	1.00	0.00	C
	ATOM	380	C	PRO	A	30147.167	-11.559	-4.180	1.00	0.00	C
5	ATOM	381	O	PRO	A	30147.291	-10.383	-3.839	1.00	0.00	O
	ATOM	382	CB	PRO	A	30149.577	-11.785	-4.840	1.00	0.00	C
	ATOM	383	CG	PRO	A	30149.809	-10.537	-5.617	1.00	0.00	C
	ATOM	384	CD	PRO	A	30149.006	-10.676	-6.885	1.00	0.00	C
	ATOM	385	HA	PRO	A	30148.048	-13.261	-5.151	1.00	0.00	H
10	ATOM	386	1HB	PRO	A	30149.666	-11.614	-3.777	1.00	0.00	H
	ATOM	387	2HB	PRO	A	30150.254	-12.571	-5.143	1.00	0.00	H
	ATOM	388	1HG	PRO	A	30149.468	-9.684	-5.050	1.00	0.00	H
	ATOM	389	2HG	PRO	A	30150.859	-10.438	-5.849	1.00	0.00	H
	ATOM	390	1HD	PRO	A	30148.564	-9.730	-7.156	1.00	0.00	H
15	ATOM	391	2HD	PRO	A	30149.628	-11.045	-7.685	1.00	0.00	H
	ATOM	392	N	PRO	A	31146.181	-12.338	-3.697	1.00	0.00	N
	ATOM	393	CA	PRO	A	31145.190	-11.843	-2.736	1.00	0.00	C
	ATOM	394	C	PRO	A	31145.794	-11.586	-1.360	1.00	0.00	C
	ATOM	395	O	PRO	A	31146.067	-12.521	-0.606	1.00	0.00	O
20	ATOM	396	CB	PRO	A	31144.165	-12.976	-2.667	1.00	0.00	C
	ATOM	397	CG	PRO	A	31144.925	-14.198	-3.043	1.00	0.00	C
	ATOM	398	CD	PRO	A	31145.955	-13.754	-4.044	1.00	0.00	C
	ATOM	399	HA	PRO	A	31144.712	-10.941	-3.091	1.00	0.00	H
	ATOM	400	1HB	PRO	A	31143.770	-13.047	-1.663	1.00	0.00	H
25	ATOM	401	2HB	PRO	A	31143.361	-12.782	-3.362	1.00	0.00	H
	ATOM	402	1HG	PRO	A	31145.408	-14.615	-2.170	1.00	0.00	H
	ATOM	403	2HG	PRO	A	31144.260	-14.924	-3.487	1.00	0.00	H
	ATOM	404	1HD	PRO	A	31146.863	-14.327	-3.934	1.00	0.00	H
	ATOM	405	2HD	PRO	A	31145.569	-13.846	-5.048	1.00	0.00	H

	ATOM	406	N	PHE A	32146.001	-10.313	-1.038	1.00	0.00	N
	ATOM	407	CA	PHE A	32146.574	-9.933	0.248	1.00	0.00	C
	ATOM	408	C	PHE A	32145.715	-8.877	0.935	1.00	0.00	C
	ATOM	409	O	PHE A	32144.802	-8.315	0.330	1.00	0.00	O
5	ATOM	410	CB	PHE A	32147.998	-9.406	0.061	1.00	0.00	C
	ATOM	411	CG	PHE A	32148.118	-8.373	-1.023	1.00	0.00	C
	ATOM	412	CD1	PHE A	32148.820	-8.648	-2.186	1.00	0.00	C
	ATOM	413	CD2	PHE A	32147.530	-7.127	-0.877	1.00	0.00	C
	ATOM	414	CE1	PHE A	32148.933	-7.700	-3.184	1.00	0.00	C
10	ATOM	415	CE2	PHE A	32147.641	-6.173	-1.873	1.00	0.00	C
	ATOM	416	CZ	PHE A	32148.342	-6.460	-3.028	1.00	0.00	C
	ATOM	417	H	PHE A	32145.764	-9.613	-1.680	1.00	0.00	H
	ATOM	418	HA	PHE A	32146.606	-10.815	0.870	1.00	0.00	H
	ATOM	419	1HB	PHE A	32148.333	-8.959	0.985	1.00	0.00	H
15	ATOM	420	2HB	PHE A	32148.649	-10.231	-0.190	1.00	0.00	H
	ATOM	421	HD1	PHE A	32149.281	-9.617	-2.308	1.00	0.00	H
	ATOM	422	HD2	PHE A	32146.982	-6.901	0.025	1.00	0.00	H
	ATOM	423	HE1	PHE A	32149.483	-7.927	-4.086	1.00	0.00	H
	ATOM	424	HE2	PHE A	32147.178	-5.206	-1.748	1.00	0.00	H
20	ATOM	425	HZ	PHE A	32148.429	-5.718	-3.807	1.00	0.00	H
	ATOM	426	N	TYR A	33146.012	-8.612	2.203	1.00	0.00	N
	ATOM	427	CA	TYR A	33145.266	-7.623	2.973	1.00	0.00	C
	ATOM	428	C	TYR A	33146.213	-6.681	3.708	1.00	0.00	C
	ATOM	429	O	TYR A	33147.222	-7.110	4.269	1.00	0.00	O
25	ATOM	430	CB	TYR A	33144.340	-8.318	3.973	1.00	0.00	C
	ATOM	431	CG	TYR A	33143.079	-8.869	3.348	1.00	0.00	C
	ATOM	432	CD1	TYR A	33142.709	-10.196	3.538	1.00	0.00	C
	ATOM	433	CD2	TYR A	33142.257	-8.064	2.568	1.00	0.00	C
	ATOM	434	CE1	TYR A	33141.557	-10.703	2.969	1.00	0.00	C

	ATOM	435	CE2	TYR	A	33141.103	-8.566	1.996	1.00	0.00	C
	ATOM	436	CZ	TYR	A	33140.758	-9.885	2.199	1.00	0.00	C
	ATOM	437	OH	TYR	A	33139.610	-10.387	1.630	1.00	0.00	O
	ATOM	438	H	TYR	A	33146.751	-9.094	2.631	1.00	0.00	H
5	ATOM	439	HA	TYR	A	33144.669	-7.047	2.282	1.00	0.00	H
	ATOM	440	1HB	TYR	A	33144.869	-9.139	4.432	1.00	0.00	H
	ATOM	441	2HB	TYR	A	33144.051	-7.610	4.736	1.00	0.00	H
	ATOM	442	HD1	TYR	A	33143.337	-10.833	4.141	1.00	0.00	H
	ATOM	443	HD2	TYR	A	33142.531	-7.032	2.411	1.00	0.00	H
10	ATOM	444	HE1	TYR	A	33141.286	-11.737	3.127	1.00	0.00	H
	ATOM	445	HE2	TYR	A	33140.477	-7.924	1.393	1.00	0.00	H
	ATOM	446	HH	TYR	A	33139.802	-11.228	1.209	1.00	0.00	H
	ATOM	447	N	GLY	A	34145.881	-5.394	3.704	1.00	0.00	N
	ATOM	448	CA	GLY	A	34146.711	-4.411	4.374	1.00	0.00	C
15	ATOM	449	C	GLY	A	34145.948	-3.149	4.725	1.00	0.00	C
	ATOM	450	O	GLY	A	34144.896	-2.873	4.150	1.00	0.00	O
	ATOM	451	H	GLY	A	34145.066	-5.109	3.241	1.00	0.00	H
	ATOM	452	1HA	GLY	A	34147.103	-4.846	5.282	1.00	0.00	H
	ATOM	453	2HA	GLY	A	34147.537	-4.151	3.727	1.00	0.00	H
20	ATOM	454	N	VAL	A	35146.480	-2.382	5.671	1.00	0.00	N
	ATOM	455	CA	VAL	A	35145.842	-1.143	6.098	1.00	0.00	C
	ATOM	456	C	VAL	A	35146.536	0.070	5.486	1.00	0.00	C
	ATOM	457	O	VAL	A	35147.743	0.052	5.247	1.00	0.00	O
	ATOM	458	CB	VAL	A	35145.848	-1.009	7.635	1.00	0.00	C
25	ATOM	459	CG1	VAL	A	35147.273	-0.996	8.169	1.00	0.00	C
	ATOM	460	CG2	VAL	A	35145.095	0.240	8.067	1.00	0.00	C
	ATOM	461	H	VAL	A	35147.322	-2.656	6.092	1.00	0.00	H
	ATOM	462	HA	VAL	A	35144.816	-1.165	5.763	1.00	0.00	H
	ATOM	463	HB	VAL	A	35145.342	-1.869	8.050	1.00	0.00	H

	ATOM	464	1HG1	VAL	A	35147.344	-0.295	8.987	1.00	0.00	H
	ATOM	465	2HG1	VAL	A	35147.950	-0.699	7.381	1.00	0.00	H
	ATOM	466	3HG1	VAL	A	35147.536	-1.984	8.516	1.00	0.00	H
	ATOM	467	1HG2	VAL	A	35145.576	1.113	7.652	1.00	0.00	H
5	ATOM	468	2HG2	VAL	A	35145.096	0.307	9.145	1.00	0.00	H
	ATOM	469	3HG2	VAL	A	35144.076	0.188	7.712	1.00	0.00	H
	ATOM	470	N	ILE	A	36145.764	1.122	5.233	1.00	0.00	N
	ATOM	471	CA	ILE	A	36146.305	2.343	4.648	1.00	0.00	C
	ATOM	472	C	ILE	A	36147.257	3.039	5.615	1.00	0.00	C
10	ATOM	473	O	ILE	A	36147.061	3.001	6.830	1.00	0.00	O
	ATOM	474	CB	ILE	A	36145.182	3.324	4.253	1.00	0.00	C
	ATOM	475	CG1	ILE	A	36144.129	2.611	3.400	1.00	0.00	C
	ATOM	476	CG2	ILE	A	36145.758	4.516	3.505	1.00	0.00	C
	ATOM	477	CD1	ILE	A	36142.990	3.510	2.971	1.00	0.00	C
15	ATOM	478	H	ILE	A	36144.808	1.075	5.445	1.00	0.00	H
	ATOM	479	HA	ILE	A	36146.848	2.073	3.754	1.00	0.00	H
	ATOM	480	HB	ILE	A	36144.717	3.687	5.157	1.00	0.00	H
	ATOM	481	1HG1	ILE	A	36144.599	2.224	2.509	1.00	0.00	H
	ATOM	482	2HG1	ILE	A	36143.711	1.791	3.967	1.00	0.00	H
20	ATOM	483	1HG2	ILE	A	36146.253	5.174	4.204	1.00	0.00	H
	ATOM	484	2HG2	ILE	A	36144.960	5.051	3.011	1.00	0.00	H
	ATOM	485	3HG2	ILE	A	36146.469	4.172	2.770	1.00	0.00	H
	ATOM	486	1HD1	ILE	A	36142.253	3.558	3.759	1.00	0.00	H
	ATOM	487	2HD1	ILE	A	36142.535	3.111	2.076	1.00	0.00	H
25	ATOM	488	3HD1	ILE	A	36143.369	4.500	2.772	1.00	0.00	H
	ATOM	489	N	ARG	A	37148.287	3.674	5.067	1.00	0.00	N
	ATOM	490	CA	ARG	A	37149.271	4.379	5.882	1.00	0.00	C
	ATOM	491	C	ARG	A	37149.476	5.804	5.378	1.00	0.00	C
	ATOM	492	O	ARG	A	37149.174	6.769	6.080	1.00	0.00	O



	ATOM	493	CB	ARG A	37150.604	3.626	5.872	1.00	0.00	C
	ATOM	494	CG	ARG A	37150.463	2.137	6.139	1.00	0.00	C
	ATOM	495	CD	ARG A	37149.863	1.870	7.511	1.00	0.00	C
	ATOM	496	NE	ARG A	37150.865	1.945	8.571	1.00	0.00	N
5	ATOM	497	CZ	ARG A	37150.616	1.661	9.847	1.00	0.00	C
	ATOM	498	NH1	ARG A	37149.401	1.284	10.226	1.00	0.00	N
	ATOM	499	NH2	ARG A	37151.585	1.755	10.749	1.00	0.00	N
	ATOM	500	H	ARG A	37148.389	3.668	4.093	1.00	0.00	H
	ATOM	501	HA	ARG A	37148.897	4.418	6.893	1.00	0.00	H
10	ATOM	502	1HB	ARG A	37151.069	3.754	4.907	1.00	0.00	H
	ATOM	503	2HB	ARG A	37151.247	4.047	6.632	1.00	0.00	H
	ATOM	504	1HG	ARG A	37149.820	1.705	5.386	1.00	0.00	H
	ATOM	505	2HG	ARG A	37151.440	1.678	6.088	1.00	0.00	H
	ATOM	506	1HD	ARG A	37149.095	2.605	7.702	1.00	0.00	H
15	ATOM	507	2HD	ARG A	37149.424	0.883	7.511	1.00	0.00	H
	ATOM	508	HE	ARG A	37151.770	2.221	8.319	1.00	0.00	H
	ATOM	509	1HH1	ARG A	37148.667	1.211	9.551	1.00	0.00	H
	ATOM	510	2HH1	ARG A	37149.221	1.071	11.187	1.00	0.00	H
	ATOM	511	1HH2	ARG A	37152.502	2.039	10.469	1.00	0.00	H
20	ATOM	512	2HH2	ARG A	37151.398	1.542	11.707	1.00	0.00	H
	ATOM	513	N	TRP A	38149.989	5.929	4.158	1.00	0.00	N
	ATOM	514	CA	TRP A	38150.233	7.238	3.563	1.00	0.00	C
	ATOM	515	C	TRP A	38149.491	7.382	2.237	1.00	0.00	C
	ATOM	516	O	TRP A	38149.514	6.481	1.399	1.00	0.00	O
25	ATOM	517	CB	TRP A	38151.735	7.456	3.349	1.00	0.00	C
	ATOM	518	CG	TRP A	38152.054	8.673	2.533	1.00	0.00	C
	ATOM	519	CD1	TRP A	38152.277	9.938	2.997	1.00	0.00	C
	ATOM	520	CD2	TRP A	38152.180	8.741	1.107	1.00	0.00	C
	ATOM	521	NE1	TRP A	38152.534	10.787	1.947	1.00	0.00	N

	ATOM	522	'CE2	TRP	A	38152.480	10.075	0.777	1.00	0.00	C
	ATOM	523	CE3	TRP	A	38152.068	7.801	0.079	1.00	0.00	C
	ATOM	524	CZ2	TRP	A	38152.669	10.492	-0.540	1.00	0.00	C
	ATOM	525	CZ3	TRP	A	38152.256	8.216	-1.226	1.00	0.00	C
5	ATOM	526	CH2	TRP	A	38152.554	9.551	-1.526	1.00	0.00	C
	ATOM	527	H	TRP	A	38150.208	5.122	3.646	1.00	0.00	H
	ATOM	528	HA	TRP	A	38149.865	7.987	4.249	1.00	0.00	H
	ATOM	529	1HB	TRP	A	38152.215	7.565	4.310	1.00	0.00	H
	ATOM	530	2HB	TRP	A	38152.147	6.595	2.842	1.00	0.00	H
10	ATOM	531	HD1	TRP	A	38152.251	10.216	4.039	1.00	0.00	H
	ATOM	532	HE1	TRP	A	38152.725	11.746	2.023	1.00	0.00	H
	ATOM	533	HE3	TRP	A	38151.838	6.769	0.289	1.00	0.00	H
	ATOM	534	HZ2	TRP	A	38152.896	11.518	-0.788	1.00	0.00	H
	ATOM	535	HZ3	TRP	A	38152.173	7.503	-2.034	1.00	0.00	H
15	ATOM	536	HH2	TRP	A	38152.693	9.829	-2.560	1.00	0.00	H
	ATOM	537	N	ILE	A	39148.842	8.527	2.055	1.00	0.00	N
	ATOM	538	CA	ILE	A	39148.100	8.803	0.831	1.00	0.00	C
	ATOM	539	C	ILE	A	39148.544	10.127	0.223	1.00	0.00	C
	ATOM	540	O	ILE	A	39148.213	11.197	0.735	1.00	0.00	O
20	ATOM	541	CB	ILE	A	39146.583	8.851	1.090	1.00	0.00	C
	ATOM	542	CG1	ILE	A	39146.137	7.619	1.880	1.00	0.00	C
	ATOM	543	CG2	ILE	A	39145.824	8.946	-0.225	1.00	0.00	C
	ATOM	544	CD1	ILE	A	39144.728	7.725	2.420	1.00	0.00	C
	ATOM	545	H	ILE	A	39148.868	9.207	2.760	1.00	0.00	H
25	ATOM	546	HA	ILE	A	39148.302	8.007	0.129	1.00	0.00	H
	ATOM	547	HB	ILE	A	39146.366	9.737	1.667	1.00	0.00	H
	ATOM	548	1HG1	ILE	A	39146.182	6.752	1.239	1.00	0.00	H
	ATOM	549	2HG1	ILE	A	39146.804	7.476	2.717	1.00	0.00	H
	ATOM	550	1HG2	ILE	A	39146.045	8.080	-0.832	1.00	0.00	H

	ATOM	551	2HG2	ILE A	39146.125	9.840	-0.752	1.00	0.00	H
	ATOM	552	3HG2	ILE A	39144.763	8.986	-0.028	1.00	0.00	H
	ATOM	553	1HD1	ILE A	39144.041	7.263	1.727	1.00	0.00	H
	ATOM	554	2HD1	ILE A	39144.468	8.765	2.547	1.00	0.00	H
5	ATOM	555	3HD1	ILE A	39144.669	7.221	3.374	1.00	0.00	H
	ATOM	556	N	GLY A	40149.303	10.051	-0.866	1.00	0.00	N
	ATOM	557	CA	GLY A	40149.784	11.256	-1.513	1.00	0.00	C
	ATOM	558	C	GLY A	40150.325	11.000	-2.905	1.00	0.00	C
	ATOM	559	O	GLY A	40150.197	9.896	-3.437	1.00	0.00	O
10	ATOM	560	H	GLY A	40149.542	9.172	-1.228	1.00	0.00	H
	ATOM	561	1HA	GLY A	40148.973	11.963	-1.580	1.00	0.00	H
	ATOM	562	2HA	GLY A	40150.569	11.684	-0.909	1.00	0.00	H
	ATOM	563	N	GLN A	41150.931	12.024	-3.494	1.00	0.00	N
	ATOM	564	CA	GLN A	41151.497	11.918	-4.833	1.00	0.00	C
15	ATOM	565	C	GLN A	41152.964	12.346	-4.832	1.00	0.00	C
	ATOM	566	O	GLN A	41153.276	13.509	-4.574	1.00	0.00	O
	ATOM	567	CB	GLN A	41150.698	12.783	-5.807	1.00	0.00	C
	ATOM	568	CG	GLN A	41149.196	12.573	-5.716	1.00	0.00	C
	ATOM	569	CD	GLN A	41148.417	13.867	-5.845	1.00	0.00	C
20	ATOM	570	OE1	GLN A	41148.369	14.671	-4.914	1.00	0.00	O
	ATOM	571	NE2	GLN A	41147.802	14.074	-7.002	1.00	0.00	N
	ATOM	572	H	GLN A	41150.998	12.876	-3.016	1.00	0.00	H
	ATOM	573	HA	GLN A	41151.430	10.886	-5.142	1.00	0.00	H
	ATOM	574	1HB	GLN A	41150.906	13.822	-5.600	1.00	0.00	H
25	ATOM	575	2HB	GLN A	41151.013	12.556	-6.814	1.00	0.00	H
	ATOM	576	1HG	GLN A	41148.889	11.906	-6.508	1.00	0.00	H
	ATOM	577	2HG	GLN A	41148.965	12.125	-4.761	1.00	0.00	H
	ATOM	578	1HE2	GLN A	41147.884	13.389	-7.698	1.00	0.00	H
	ATOM	579	2HE2	GLN A	41147.291	14.902	-7.114	1.00	0.00	H

	ATOM	580	N	PRO A	42153.889	11.412	-5.117	1.00	0.00	N
	ATOM	581	CA	PRO A	42155.326	11.708	-5.142	1.00	0.00	C
	ATOM	582	C	PRO A	42155.671	12.825	-6.122	1.00	0.00	C
	ATOM	583	O	PRO A	42154.902	13.119	-7.038	1.00	0.00	O
5	ATOM	584	CB	PRO A	42155.961	10.387	-5.590	1.00	0.00	C
	ATOM	585	CG	PRO A	42154.953	9.346	-5.249	1.00	0.00	C
	ATOM	586	CD	PRO A	42153.614	10.000	-5.435	1.00	0.00	C
	ATOM	587	HA	PRO A	42155.691	11.970	-4.160	1.00	0.00	H
	ATOM	588	1HB	PRO A	42156.152	10.420	-6.653	1.00	0.00	H
10	ATOM	589	2HB	PRO A	42156.886	10.230	-5.057	1.00	0.00	H
	ATOM	590	1HG	PRO A	42155.054	8.501	-5.913	1.00	0.00	H
	ATOM	591	2HG	PRO A	42155.078	9.034	-4.222	1.00	0.00	H
	ATOM	592	1HD	PRO A	42153.280	9.891	-6.457	1.00	0.00	H
	ATOM	593	2HD	PRO A	42152.891	9.583	-4.751	1.00	0.00	H
15	ATOM	594	N	PRO A	43156.841	13.463	-5.943	1.00	0.00	N
	ATOM	595	CA	PRO A	43157.286	14.551	-6.816	1.00	0.00	C
	ATOM	596	C	PRO A	43157.707	14.053	-8.193	1.00	0.00	C
	ATOM	597	O	PRO A	43158.879	13.762	-8.429	1.00	0.00	O
	ATOM	598	CB	PRO A	43158.488	15.132	-6.072	1.00	0.00	C
20	ATOM	599	CG	PRO A	43159.013	14.001	-5.259	1.00	0.00	C
	ATOM	600	CD	PRO A	43157.817	13.173	-4.876	1.00	0.00	C
	ATOM	601	HA	PRO A	43156.525	15.310	-6.925	1.00	0.00	H
	ATOM	602	1HB	PRO A	43159.220	15.481	-6.786	1.00	0.00	H
	ATOM	603	2HB	PRO A	43158.167	15.952	-5.447	1.00	0.00	H
25	ATOM	604	1HG	PRO A	43159.702	13.414	-5.848	1.00	0.00	H
	ATOM	605	2HG	PRO A	43159.504	14.381	-4.375	1.00	0.00	H
	ATOM	606	1HD	PRO A	43158.074	12.124	-4.864	1.00	0.00	H
	ATOM	607	2HD	PRO A	43157.438	13.479	-3.913	1.00	0.00	H
	ATOM	608	N	GLY A	44156.742	13.956	-9.102	1.00	0.00	N

	ATOM	609	CA	GLY A	44157.035	13.493	-10.444	1.00	0.00	C
	ATOM	610	C	GLY A	44155.815	12.935	-11.146	1.00	0.00	C
	ATOM	611	O	GLY A	44155.511	13.319	-12.275	1.00	0.00	O
	ATOM	612	H	GLY A	44155.826	14.202	-8.859	1.00	0.00	H
5	ATOM	613	1HA	GLY A	44157.422	14.318	-11.021	1.00	0.00	H
	ATOM	614	2HA	GLY A	44157.789	12.721	-10.389	1.00	0.00	H
	ATOM	615	N	LEU A	45155.112	12.028	-10.476	1.00	0.00	N
	ATOM	616	CA	LEU A	45153.916	11.419	-11.047	1.00	0.00	C
	ATOM	617	C	LEU A	45152.704	11.673	-10.162	1.00	0.00	C
10	ATOM	618	O	LEU A	45152.622	11.161	-9.045	1.00	0.00	O
	ATOM	619	CB	LEU A	45154.123	9.914	-11.228	1.00	0.00	C
	ATOM	620	CG	LEU A	45154.702	9.190	-10.012	1.00	0.00	C
	ATOM	621	CD1	LEU A	45154.398	7.699	-10.079	1.00	0.00	C
	ATOM	622	CD2	LEU A	45156.202	9.431	-9.913	1.00	0.00	C
15	ATOM	623	H	LEU A	45155.402	11.763	-9.577	1.00	0.00	H
	ATOM	624	HA	LEU A	45153.744	11.868	-12.013	1.00	0.00	H
	ATOM	625	1HB	LEU A	45153.168	9.467	-11.467	1.00	0.00	H
	ATOM	626	2HB	LEU A	45154.792	9.761	-12.061	1.00	0.00	H
	ATOM	627	HG	LEU A	45154.240	9.583	-9.116	1.00	0.00	H
20	ATOM	628	1HD1	LEU A	45153.895	7.394	-9.174	1.00	0.00	H
	ATOM	629	2HD1	LEU A	45155.321	7.147	-10.182	1.00	0.00	H
	ATOM	630	3HD1	LEU A	45153.763	7.498	-10.930	1.00	0.00	H
	ATOM	631	1HD2	LEU A	45156.405	10.107	-9.095	1.00	0.00	H
	ATOM	632	2HD2	LEU A	45156.558	9.867	-10.836	1.00	0.00	H
25	ATOM	633	3HD2	LEU A	45156.709	8.493	-9.739	1.00	0.00	H
	ATOM	634	N	ASN A	46151.760	12.464	-10.662	1.00	0.00	N
	ATOM	635	CA	ASN A	46150.556	12.771	-9.903	1.00	0.00	C
	ATOM	636	C	ASN A	46149.628	11.563	-9.860	1.00	0.00	C
	ATOM	637	O	ASN A	46149.007	11.207	-10.861	1.00	0.00	O

	ATOM	638	CB	ASN A	46149.829	13.967	-10.521	1.00	0.00	C
	ATOM	639	CG	ASN A	46148.973	14.709	-9.514	1.00	0.00	C
	ATOM	640	OD1	ASN A	46147.746	14.622	-9.540	1.00	0.00	O
	ATOM	641	ND2	ASN A	46149.619	15.445	-8.617	1.00	0.00	N
5	ATOM	642	H	ASN A	46151.875	12.844	-11.558	1.00	0.00	H
	ATOM	643	HA	ASN A	46150.852	13.021	-8.895	1.00	0.00	H
	ATOM	644	1HB	ASN A	46150.557	14.655	-10.922	1.00	0.00	H
	ATOM	645	2HB	ASN A	46149.191	13.619	-11.320	1.00	0.00	H
	ATOM	646	1HD2	ASN A	46150.599	15.468	-8.655	1.00	0.00	H
10	ATOM	647	2HD2	ASN A	46149.091	15.936	-7.953	1.00	0.00	H
	ATOM	648	N	GLU A	47149.543	10.935	-8.693	1.00	0.00	N
	ATOM	649	CA	GLU A	47148.693	9.766	-8.511	1.00	0.00	C
	ATOM	650	C	GLU A	47148.523	9.444	-7.031	1.00	0.00	C
	ATOM	651	O	GLU A	47149.502	9.193	-6.327	1.00	0.00	O
15	ATOM	652	CB	GLU A	47149.286	8.558	-9.243	1.00	0.00	C
	ATOM	653	CG	GLU A	47150.801	8.468	-9.150	1.00	0.00	C
	ATOM	654	CD	GLU A	47151.389	7.499	-10.156	1.00	0.00	C
	ATOM	655	OE1	GLU A	47151.498	7.871	-11.345	1.00	0.00	O
	ATOM	656	OE2	GLU A	47151.742	6.370	-9.757	1.00	0.00	O
20	ATOM	657	H	GLU A	47150.064	11.268	-7.933	1.00	0.00	H
	ATOM	658	HA	GLU A	47147.725	9.991	-8.932	1.00	0.00	H
	ATOM	659	1HB	GLU A	47148.866	7.656	-8.820	1.00	0.00	H
	ATOM	660	2HB	GLU A	47149.014	8.615	-10.286	1.00	0.00	H
	ATOM	661	1HG	GLU A	47151.218	9.446	-9.329	1.00	0.00	H
25	ATOM	662	2HG	GLU A	47151.070	8.140	-8.157	1.00	0.00	H
	ATOM	663	N	VAL A	48147.281	9.445	-6.564	1.00	0.00	N
	ATOM	664	CA	VAL A	48146.998	9.146	-5.167	1.00	0.00	C
	ATOM	665	C	VAL A	48147.382	7.708	-4.839	1.00	0.00	C
	ATOM	666	O	VAL A	48146.654	6.771	-5.164	1.00	0.00	O

	ATOM	667	CB	VAL A	48145.510	9.358	-4.832	1.00	0.00	C
	ATOM	668	CG1	VAL A	48145.280	9.261	-3.332	1.00	0.00	C
	ATOM	669	CG2	VAL A	48145.028	10.698	-5.367	1.00	0.00	C
	ATOM	670	H	VAL A	48146.539	9.647	-7.171	1.00	0.00	H
5	ATOM	671	HA	VAL A	48147.586	9.814	-4.555	1.00	0.00	H
	ATOM	672	HB	VAL A	48144.938	8.577	-5.311	1.00	0.00	H
	ATOM	673	1HG1	VAL A	48146.009	9.870	-2.816	1.00	0.00	H
	ATOM	674	2HG1	VAL A	48145.384	8.234	-3.018	1.00	0.00	H
	ATOM	675	3HG1	VAL A	48144.286	9.612	-3.096	1.00	0.00	H
10	ATOM	676	1HG2	VAL A	48144.888	10.631	-6.435	1.00	0.00	H
	ATOM	677	2HG2	VAL A	48145.764	11.458	-5.149	1.00	0.00	H
	ATOM	678	3HG2	VAL A	48144.092	10.958	-4.896	1.00	0.00	H
	ATOM	679	N	LEU A	49148.535	7.539	-4.201	1.00	0.00	N
	ATOM	680	CA	LEU A	49149.018	6.214	-3.836	1.00	0.00	C
15	ATOM	681	C	LEU A	49148.878	5.981	-2.338	1.00	0.00	C
	ATOM	682	O	LEU A	49149.538	6.638	-1.532	1.00	0.00	O
	ATOM	683	CB	LEU A	49150.480	6.046	-4.256	1.00	0.00	C
	ATOM	684	CG	LEU A	49150.733	6.129	-5.763	1.00	0.00	C
	ATOM	685	CD1	LEU A	49152.125	6.676	-6.041	1.00	0.00	C
20	ATOM	686	CD2	LEU A	49150.556	4.763	-6.408	1.00	0.00	C
	ATOM	687	H	LEU A	49149.075	8.325	-3.971	1.00	0.00	H
	ATOM	688	HA	LEU A	49148.417	5.486	-4.360	1.00	0.00	H
	ATOM	689	1HB	LEU A	49151.062	6.815	-3.771	1.00	0.00	H
	ATOM	690	2HB	LEU A	49150.824	5.084	-3.910	1.00	0.00	H
25	ATOM	691	HG	LEU A	49150.016	6.805	-6.206	1.00	0.00	H
	ATOM	692	1HD1	LEU A	49152.859	6.065	-5.535	1.00	0.00	H
	ATOM	693	2HD1	LEU A	49152.192	7.691	-5.679	1.00	0.00	H
	ATOM	694	3HD1	LEU A	49152.313	6.658	-7.104	1.00	0.00	H
	ATOM	695	1HD2	LEU A	49151.466	4.192	-6.299	1.00	0.00	H

	ATOM	696	2HD2	LEU A	49150.332	4.887	-7.458	1.00	0.00	H
	ATOM	697	3HD2	LEU A	49149.744	4.241	-5.927	1.00	0.00	H
	ATOM	698	N	ALA A	50148.016	5.041	-1.969	1.00	0.00	N
	ATOM	699	CA	ALA A	50147.792	4.725	-0.567	1.00	0.00	C
5	ATOM	700	C	ALA A	50148.710	3.597	-0.106	1.00	0.00	C
	ATOM	701	O	ALA A	50148.601	2.465	-0.577	1.00	0.00	O
	ATOM	702	CB	ALA A	50146.334	4.353	-0.335	1.00	0.00	C
	ATOM	703	H	ALA A	50147.518	4.551	-2.657	1.00	0.00	H
	ATOM	704	HA	ALA A	50148.009	5.613	0.009	1.00	0.00	H
10	ATOM	705	1HB	ALA A	50145.791	5.222	0.005	1.00	0.00	H
	ATOM	706	2HB	ALA A	50146.275	3.576	0.412	1.00	0.00	H
	ATOM	707	3HB	ALA A	50145.903	3.997	-1.259	1.00	0.00	H
	ATOM	708	N	GLY A	51149.612	3.914	0.815	1.00	0.00	N
	ATOM	709	CA	GLY A	51150.535	2.916	1.323	1.00	0.00	C
15	ATOM	710	C	GLY A	51149.844	1.863	2.167	1.00	0.00	C
	ATOM	711	O	GLY A	51149.329	2.161	3.245	1.00	0.00	O
	ATOM	712	H	GLY A	51149.653	4.833	1.153	1.00	0.00	H
	ATOM	713	1HA	GLY A	51151.018	2.431	0.488	1.00	0.00	H
	ATOM	714	2HA	GLY A	51151.286	3.408	1.924	1.00	0.00	H
20	ATOM	715	N	LEU A	52149.831	0.629	1.676	1.00	0.00	N
	ATOM	716	CA	LEU A	52149.197	-0.472	2.394	1.00	0.00	C
	ATOM	717	C	LEU A	52150.243	-1.373	3.043	1.00	0.00	C
	ATOM	718	O	LEU A	52151.202	-1.795	2.395	1.00	0.00	O
	ATOM	719	CB	LEU A	52148.321	-1.291	1.444	1.00	0.00	C
25	ATOM	720	CG	LEU A	52147.056	-0.582	0.958	1.00	0.00	C
	ATOM	721	CD1	LEU A	52146.413	-1.358	-0.180	1.00	0.00	C
	ATOM	722	CD2	LEU A	52146.072	-0.402	2.105	1.00	0.00	C
	ATOM	723	H	LEU A	52150.258	0.452	0.813	1.00	0.00	H
	ATOM	724	HA	LEU A	52148.576	-0.048	3.168	1.00	0.00	H



	ATOM	725	1HB	LEU A	52148.914	-1.558	0.582	1.00	0.00	H
	ATOM	726	2HB	LEU A	52148.025	-2.197	1.951	1.00	0.00	H
	ATOM	727	HG	LEU A	52147.320	0.398	0.587	1.00	0.00	H
	ATOM	728	1HD1	LEU A	52147.183	-1.760	-0.823	1.00	0.00	H
5	ATOM	729	2HD1	LEU A	52145.776	-0.698	-0.752	1.00	0.00	H
	ATOM	730	3HD1	LEU A	52145.822	-2.167	0.223	1.00	0.00	H
	ATOM	731	1HD2	LEU A	52146.235	-1.174	2.843	1.00	0.00	H
	ATOM	732	2HD2	LEU A	52145.063	-0.473	1.728	1.00	0.00	H
	ATOM	733	3HD2	LEU A	52146.220	0.567	2.558	1.00	0.00	H
10	ATOM	734	N	GLU A	53150.052	-1.664	4.326	1.00	0.00	N
	ATOM	735	CA	GLU A	53150.978	-2.514	5.063	1.00	0.00	C
	ATOM	736	C	GLU A	53150.455	-3.945	5.146	1.00	0.00	C
	ATOM	737	O	GLU A	53149.489	-4.223	5.858	1.00	0.00	O
	ATOM	738	CB	GLU A	53151.204	-1.959	6.470	1.00	0.00	C
15	ATOM	739	CG	GLU A	53152.193	-2.769	7.292	1.00	0.00	C
	ATOM	740	CD	GLU A	53151.825	-2.820	8.762	1.00	0.00	C
	ATOM	741	OE1	GLU A	53150.789	-3.436	9.095	1.00	0.00	O
	ATOM	742	OE2	GLU A	53152.571	-2.244	9.581	1.00	0.00	O
	ATOM	743	H	GLU A	53149.269	-1.297	4.787	1.00	0.00	H
20	ATOM	744	HA	GLU A	53151.919	-2.519	4.532	1.00	0.00	H
	ATOM	745	1HB	GLU A	53151.577	-0.949	6.391	1.00	0.00	H
	ATOM	746	2HB	GLU A	53150.259	-1.944	6.995	1.00	0.00	H
	ATOM	747	1HG	GLU A	53152.219	-3.779	6.909	1.00	0.00	H
	ATOM	748	2HG	GLU A	53153.172	-2.323	7.196	1.00	0.00	H
25	ATOM	749	N	LEU A	54151.097	-4.848	4.413	1.00	0.00	N
	ATOM	750	CA	LEU A	54150.696	-6.250	4.404	1.00	0.00	C
	ATOM	751	C	LEU A	54150.964	-6.903	5.757	1.00	0.00	C
	ATOM	752	O	LEU A	54152.037	-6.735	6.335	1.00	0.00	O
	ATOM	753	CB	LEU A	54151.439	-7.008	3.302	1.00	0.00	C

	ATOM	754	CG	LEU A	54151.377	-6.362	1.917	1.00	0.00	C
	ATOM	755	CD1	LEU A	54152.577	-6.778	1.080	1.00	0.00	C
	ATOM	756	CD2	LEU A	54150.080	-6.734	1.215	1.00	0.00	C
	ATOM	757	H	LEU A	54151.859	-4.565	3.866	1.00	0.00	H
5	ATOM	758	HA	LEU A	54149.635	-6.290	4.203	1.00	0.00	H
	ATOM	759	1HB	LEU A	54152.476	-7.094	3.591	1.00	0.00	H
	ATOM	760	2HB	LEU A	54151.019	-8.000	3.231	1.00	0.00	H
	ATOM	761	HG	LEU A	54151.404	-5.288	2.026	1.00	0.00	H
	ATOM	762	1HD1	LEU A	54152.294	-6.815	0.038	1.00	0.00	H
10	ATOM	763	2HD1	LEU A	54152.914	-7.755	1.396	1.00	0.00	H
	ATOM	764	3HD1	LEU A	54153.373	-6.062	1.212	1.00	0.00	H
	ATOM	765	1HD2	LEU A	54150.087	-6.336	0.212	1.00	0.00	H
	ATOM	766	2HD2	LEU A	54149.244	-6.321	1.761	1.00	0.00	H
	ATOM	767	3HD2	LEU A	54149.988	-7.809	1.175	1.00	0.00	H
15	ATOM	768	N	GLU A	55149.981	-7.645	6.255	1.00	0.00	N
	ATOM	769	CA	GLU A	55150.112	-8.323	7.540	1.00	0.00	C
	ATOM	770	C	GLU A	55151.134	-9.452	7.459	1.00	0.00	C
	ATOM	771	O	GLU A	55151.849	-9.725	8.422	1.00	0.00	O
	ATOM	772	CB	GLU A	55148.758	-8.876	7.988	1.00	0.00	C
20	ATOM	773	CG	GLU A	55147.661	-7.825	8.049	1.00	0.00	C
	ATOM	774	CD	GLU A	55146.606	-8.144	9.089	1.00	0.00	C
	ATOM	775	OE1	GLU A	55146.111	-7.202	9.743	1.00	0.00	O
	ATOM	776	OE2	GLU A	55146.273	-9.338	9.250	1.00	0.00	O
	ATOM	777	H	GLU A	55149.149	-7.740	5.746	1.00	0.00	H
25	ATOM	778	HA	GLU A	55150.452	-7.597	8.264	1.00	0.00	H
	ATOM	779	1HB	GLU A	55148.450	-9.646	7.297	1.00	0.00	H
	ATOM	780	2HB	GLU A	55148.867	-9.310	8.971	1.00	0.00	H
	ATOM	781	1HG	GLU A	55148.106	-6.873	8.292	1.00	0.00	H
	ATOM	782	2HG	GLU A	55147.185	-7.764	7.081	1.00	0.00	H

	ATOM	783	N	ASP	A	56151.196	-10.104	6.302	1.00	0.00	N
	ATOM	784	CA	ASP	A	56152.131	-11.204	6.095	1.00	0.00	C
	ATOM	785	C	ASP	A	56153.441	-10.699	5.500	1.00	0.00	C
	ATOM	786	O	ASP	A	56153.443	-9.875	4.585	1.00	0.00	O
5	ATOM	787	CB	ASP	A	56151.513	-12.260	5.178	1.00	0.00	C
	ATOM	788	CG	ASP	A	56151.896	-13.671	5.579	1.00	0.00	C
	ATOM	789	OD1	ASP	A	56152.482	-14.388	4.741	1.00	0.00	O
	ATOM	790	OD2	ASP	A	56151.612	-14.057	6.733	1.00	0.00	O
	ATOM	791	H	ASP	A	56150.601	-9.839	5.571	1.00	0.00	H
10	ATOM	792	HA	ASP	A	56152.336	-11.650	7.057	1.00	0.00	H
	ATOM	793	1HB	ASP	A	56150.437	-12.175	5.214	1.00	0.00	H
	ATOM	794	2HB	ASP	A	56151.849	-12.090	4.165	1.00	0.00	H
	ATOM	795	N	GLU	A	57154.555	-11.200	6.023	1.00	0.00	N
	ATOM	796	CA	GLU	A	57155.873	-10.799	5.543	1.00	0.00	C
15	ATOM	797	C	GLU	A	57156.191	-11.467	4.209	1.00	0.00	C
	ATOM	798	O	GLU	A	57156.569	-12.637	4.163	1.00	0.00	O
	ATOM	799	CB	GLU	A	57156.945	-11.158	6.573	1.00	0.00	C
	ATOM	800	CG	GLU	A	57157.202	-10.058	7.591	1.00	0.00	C
	ATOM	801	CD	GLU	A	57158.675	-9.895	7.913	1.00	0.00	C
20	ATOM	802	OE1	GLU	A	57159.507	-10.090	7.002	1.00	0.00	O
	ATOM	803	OE2	GLU	A	57158.996	-9.573	9.076	1.00	0.00	O
	ATOM	804	H	GLU	A	57154.490	-11.854	6.750	1.00	0.00	H
	ATOM	805	HA	GLU	A	57155.864	-9.729	5.403	1.00	0.00	H
	ATOM	806	1HB	GLU	A	57156.635	-12.045	7.106	1.00	0.00	H
25	ATOM	807	2HB	GLU	A	57157.871	-11.364	6.057	1.00	0.00	H
	ATOM	808	1HG	GLU	A	57156.832	-9.125	7.194	1.00	0.00	H
	ATOM	809	2HG	GLU	A	57156.673	-10.298	8.502	1.00	0.00	H
	ATOM	810	N	CYS	A	58156.035	-10.715	3.125	1.00	0.00	N
	ATOM	811	CA	CYS	A	58156.305	-11.234	1.789	1.00	0.00	C

	ATOM	812	C	CYS A	58157.612	-10.668	1.241	1.00	0.00	C
	ATOM	813	O	CYS A	58157.877	-9.472	1.350	1.00	0.00	O
	ATOM	814	CB	CYS A	58155.153	-10.892	0.844	1.00	0.00	C
	ATOM	815	SG	CYS A	58154.828	-12.155	-0.409	1.00	0.00	S
5	ATOM	816	H	CYS A	58155.731	-9.788	3.225	1.00	0.00	H
	ATOM	817	HA	CYS A	58156.393	-12.307	1.862	1.00	0.00	H
	ATOM	818	1HB	CYS A	58154.249	-10.764	1.421	1.00	0.00	H
	ATOM	819	2HB	CYS A	58155.378	-9.970	0.330	1.00	0.00	H
	ATOM	820	HG	CYS A	58155.382	-11.967	-1.171	1.00	0.00	H
10	ATOM	821	N	ALA A	59158.424	-11.538	0.649	1.00	0.00	N
	ATOM	822	CA	ALA A	59159.704	-11.127	0.083	1.00	0.00	C
	ATOM	823	C	ALA A	59159.504	-10.336	-1.206	1.00	0.00	C
	ATOM	824	O	ALA A	59158.946	-10.845	-2.177	1.00	0.00	O
	ATOM	825	CB	ALA A	59160.583	-12.342	-0.172	1.00	0.00	C
15	ATOM	826	H	ALA A	59158.157	-12.480	0.592	1.00	0.00	H
	ATOM	827	HA	ALA A	59160.201	-10.498	0.806	1.00	0.00	H
	ATOM	828	1HB	ALA A	59160.533	-13.006	0.679	1.00	0.00	H
	ATOM	829	2HB	ALA A	59161.604	-12.022	-0.319	1.00	0.00	H
	ATOM	830	3HB	ALA A	59160.235	-12.859	-1.053	1.00	0.00	H
20	ATOM	831	N	GLY A	60159.964	-9.090	-1.206	1.00	0.00	N
	ATOM	832	CA	GLY A	60159.828	-8.249	-2.381	1.00	0.00	C
	ATOM	833	C	GLY A	60159.332	-6.857	-2.044	1.00	0.00	C
	ATOM	834	O	GLY A	60159.634	-5.895	-2.751	1.00	0.00	O
	ATOM	835	H	GLY A	60160.402	-8.738	-0.403	1.00	0.00	H
25	ATOM	836	1HA	GLY A	60160.789	-8.169	-2.868	1.00	0.00	H
	ATOM	837	2HA	GLY A	60159.129	-8.713	-3.063	1.00	0.00	H
	ATOM	838	N	CYS A	61158.569	-6.749	-0.961	1.00	0.00	N
	ATOM	839	CA	CYS A	61158.030	-5.464	-0.533	1.00	0.00	C
	ATOM	840	C	CYS A	61159.088	-4.647	0.201	1.00	0.00	C

	ATOM	841	O	CYS A	61160.199	-5.122	0.439	1.00	0.00	O
	ATOM	842	CB	CYS A	61156.814	-5.674	0.372	1.00	0.00	C
	ATOM	843	SG	CYS A	61155.538	-6.739	-0.343	1.00	0.00	S
	ATOM	844	H	CYS A	61158.363	-7.552	-0.440	1.00	0.00	H
5	ATOM	845	HA	CYS A	61157.721	-4.923	-1.414	1.00	0.00	H
	ATOM	846	1HB	CYS A	61157.137	-6.126	1.297	1.00	0.00	H
	ATOM	847	2HB	CYS A	61156.361	-4.716	0.584	1.00	0.00	H
	ATOM	848	HG	CYS A	61155.374	-6.443	-1.241	1.00	0.00	H
	ATOM	849	N	THR A	62158.736	-3.416	0.557	1.00	0.00	N
10	ATOM	850	CA	THR A	62159.656	-2.532	1.265	1.00	0.00	C
	ATOM	851	C	THR A	62159.205	-2.320	2.707	1.00	0.00	C
	ATOM	852	O	THR A	62158.208	-2.893	3.147	1.00	0.00	O
	ATOM	853	CB	THR A	62159.755	-1.186	0.546	1.00	0.00	C
	ATOM	854	OG1	THR A	62158.468	-0.633	0.336	1.00	0.00	O
15	ATOM	855	CG2	THR A	62160.441	-1.276	-0.800	1.00	0.00	C
	ATOM	856	H	THR A	62157.835	-3.094	0.341	1.00	0.00	H
	ATOM	857	HA	THR A	62160.628	-3.001	1.270	1.00	0.00	H
	ATOM	858	HB	THR A	62160.322	-0.502	1.161	1.00	0.00	H
	ATOM	859	HG1	THR A	62158.158	-0.226	1.149	1.00	0.00	H
20	ATOM	860	1HG2	THR A	62160.407	-2.296	-1.154	1.00	0.00	H
	ATOM	861	2HG2	THR A	62161.470	-0.963	-0.701	1.00	0.00	H
	ATOM	862	3HG2	THR A	62159.936	-0.634	-1.506	1.00	0.00	H
	ATOM	863	N	ASP A	63159.946	-1.492	3.437	1.00	0.00	N
	ATOM	864	CA	ASP A	63159.622	-1.204	4.830	1.00	0.00	C
25	ATOM	865	C	ASP A	63158.872	0.118	4.951	1.00	0.00	C
	ATOM	866	O	ASP A	63158.994	0.823	5.953	1.00	0.00	O
	ATOM	867	CB	ASP A	63160.897	-1.160	5.673	1.00	0.00	C
	ATOM	868	CG	ASP A	63161.958	-0.260	5.071	1.00	0.00	C
	ATOM	869	OD1	ASP A	63161.917	0.962	5.329	1.00	0.00	O

	ATOM	870	OD2	ASP	A	63162.830	-0.775	4.341	1.00	0.00	O
	ATOM	871	H	ASP	A	63160.728	-1.066	3.030	1.00	0.00	H
	ATOM	872	HA	ASP	A	63158.988	-1.998	5.194	1.00	0.00	H
	ATOM	873	1HB	ASP	A	63160.658	-0.792	6.659	1.00	0.00	H
5	ATOM	874	2HB	ASP	A	63161.302	-2.158	5.755	1.00	0.00	H
	ATOM	875	N	GLY	A	64158.097	0.449	3.923	1.00	0.00	N
	ATOM	876	CA	GLY	A	64157.338	1.687	3.936	1.00	0.00	C
	ATOM	877	C	GLY	A	64158.086	2.832	3.282	1.00	0.00	C
	ATOM	878	O	GLY	A	64158.057	3.960	3.772	1.00	0.00	O
10	ATOM	879	H	GLY	A	64158.038	-0.151	3.152	1.00	0.00	H
	ATOM	880	1HA	GLY	A	64156.408	1.532	3.409	1.00	0.00	H
	ATOM	881	2HA	GLY	A	64157.119	1.951	4.959	1.00	0.00	H
	ATOM	882	N	THR	A	65158.759	2.540	2.173	1.00	0.00	N
	ATOM	883	CA	THR	A	65159.518	3.555	1.451	1.00	0.00	C
15	ATOM	884	C	THR	A	65159.186	3.527	-0.037	1.00	0.00	C
	ATOM	885	O	THR	A	65159.401	2.520	-0.712	1.00	0.00	O
	ATOM	886	CB	THR	A	65161.018	3.339	1.654	1.00	0.00	C
	ATOM	887	OG1	THR	A	65161.361	1.979	1.450	1.00	0.00	O
	ATOM	888	CG2	THR	A	65161.498	3.730	3.036	1.00	0.00	C
20	ATOM	889	H	THR	A	65158.743	1.622	1.832	1.00	0.00	H
	ATOM	890	HA	THR	A	65159.246	4.520	1.851	1.00	0.00	H
	ATOM	891	HB	THR	A	65161.559	3.937	0.935	1.00	0.00	H
	ATOM	892	HG1	THR	A	65160.987	1.675	0.620	1.00	0.00	H
	ATOM	893	1HG2	THR	A	65161.971	2.882	3.507	1.00	0.00	H
25	ATOM	894	2HG2	THR	A	65160.656	4.050	3.632	1.00	0.00	H
	ATOM	895	3HG2	THR	A	65162.209	4.539	2.954	1.00	0.00	H
	ATOM	896	N	PHE	A	66158.661	4.639	-0.541	1.00	0.00	N
	ATOM	897	CA	PHE	A	66158.299	4.742	-1.950	1.00	0.00	C
	ATOM	898	C	PHE	A	66159.221	5.716	-2.679	1.00	0.00	C

	ATOM	899	O	PHE A	66159.301	6.892	-2.326	1.00	0.00	O
	ATOM	900	CB	PHE A	66156.845	5.196	-2.093	1.00	0.00	C
	ATOM	901	CG	PHE A	66156.255	4.906	-3.443	1.00	0.00	C
	ATOM	902	CD1	PHE A	66155.891	3.615	-3.791	1.00	0.00	C
5	ATOM	903	CD2	PHE A	66156.065	5.924	-4.364	1.00	0.00	C
	ATOM	904	CE1	PHE A	66155.348	3.345	-5.033	1.00	0.00	C
	ATOM	905	CE2	PHE A	66155.523	5.659	-5.607	1.00	0.00	C
	ATOM	906	CZ	PHE A	66155.163	4.368	-5.943	1.00	0.00	C
	ATOM	907	H	PHE A	66158.514	5.408	0.047	1.00	0.00	H
10	ATOM	908	HA	PHE A	66158.406	3.764	-2.393	1.00	0.00	H
	ATOM	909	1HB	PHE A	66156.243	4.691	-1.353	1.00	0.00	H
	ATOM	910	2HB	PHE A	66156.791	6.263	-1.927	1.00	0.00	H
	ATOM	911	HD1	PHE A	66156.035	2.814	-3.082	1.00	0.00	H
	ATOM	912	HD2	PHE A	66156.345	6.933	-4.104	1.00	0.00	H
15	ATOM	913	HE1	PHE A	66155.069	2.333	-5.293	1.00	0.00	H
	ATOM	914	HE2	PHE A	66155.379	6.461	-6.316	1.00	0.00	H
	ATOM	915	HZ	PHE A	66154.739	4.159	-6.913	1.00	0.00	H
	ATOM	916	N	ARG A	67159.915	5.216	-3.697	1.00	0.00	N
	ATOM	917	CA	ARG A	67160.832	6.041	-4.475	1.00	0.00	C
20	ATOM	918	C	ARG A	67161.929	6.620	-3.587	1.00	0.00	C
	ATOM	919	O	ARG A	67162.433	7.715	-3.841	1.00	0.00	O
	ATOM	920	CB	ARG A	67160.070	7.173	-5.166	1.00	0.00	C
	ATOM	921	CG	ARG A	67158.877	6.694	-5.979	1.00	0.00	C
	ATOM	922	CD	ARG A	67159.187	6.672	-7.467	1.00	0.00	C
25	ATOM	923	NE	ARG A	67158.148	5.989	-8.234	1.00	0.00	N
	ATOM	924	CZ	ARG A	67158.009	6.095	-9.553	1.00	0.00	C
	ATOM	925	NH1	ARG A	67158.840	6.854	-10.257	1.00	0.00	N
	ATOM	926	NH2	ARG A	67157.035	5.440	-10.172	1.00	0.00	N
	ATOM	927	H	ARG A	67159.809	4.270	-3.929	1.00	0.00	H

	ATOM	928	HA	ARG A	67161.287	5.413	-5.225	1.00	0.00	H
	ATOM	929	1HB	ARG A	67159.713	7.862	-4.417	1.00	0.00	H
	ATOM	930	2HB	ARG A	67160.746	7.692	-5.830	1.00	0.00	H
	ATOM	931	1HG	ARG A	67158.615	5.696	-5.662	1.00	0.00	H
5	ATOM	932	2HG	ARG A	67158.045	7.361	-5.805	1.00	0.00	H
	ATOM	933	1HD	ARG A	67159.272	7.689	-7.821	1.00	0.00	H
	ATOM	934	2HD	ARG A	67160.127	6.161	-7.618	1.00	0.00	H
	ATOM	935	HE	ARG A	67157.520	5.422	-7.739	1.00	0.00	H
	ATOM	936	1HH1	ARG A	67159.576	7.350	-9.797	1.00	0.00	H
10	ATOM	937	2HH1	ARG A	67158.731	6.929	-11.248	1.00	0.00	H
	ATOM	938	1HH2	ARG A	67156.407	4.867	-9.647	1.00	0.00	H
	ATOM	939	2HH2	ARG A	67156.931	5.520	-11.163	1.00	0.00	H
	ATOM	940	N	GLY A	68162.294	5.880	-2.546	1.00	0.00	N
	ATOM	941	CA	GLY A	68163.328	6.336	-1.637	1.00	0.00	C
15	ATOM	942	C	GLY A	68162.851	7.452	-0.728	1.00	0.00	C
	ATOM	943	O	GLY A	68163.645	8.277	-0.277	1.00	0.00	O
	ATOM	944	H	GLY A	68161.858	5.016	-2.394	1.00	0.00	H
	ATOM	945	1HA	GLY A	68163.650	5.504	-1.028	1.00	0.00	H
	ATOM	946	2HA	GLY A	68164.169	6.692	-2.215	1.00	0.00	H
20	ATOM	947	N	THR A	69161.549	7.477	-0.459	1.00	0.00	N
	ATOM	948	CA	THR A	69160.967	8.500	0.402	1.00	0.00	C
	ATOM	949	C	THR A	69160.013	7.879	1.417	1.00	0.00	C
	ATOM	950	O	THR A	69158.835	7.665	1.126	1.00	0.00	O
	ATOM	951	CB	THR A	69160.228	9.543	-0.438	1.00	0.00	C
25	ATOM	952	OG1	THR A	69161.060	10.033	-1.474	1.00	0.00	O
	ATOM	953	CG2	THR A	69159.750	10.732	0.367	1.00	0.00	C
	ATOM	954	H	THR A	69160.967	6.792	-0.848	1.00	0.00	H
	ATOM	955	HA	THR A	69161.772	8.984	0.934	1.00	0.00	H
	ATOM	956	HB	THR A	69159.362	9.079	-0.889	1.00	0.00	H



	ATOM	957	HG1	THR	A	69161.864	10.397	-1.095	1.00	0.00	H
	ATOM	958	1HG2	THR	A	69158.755	11.006	0.048	1.00	0.00	H
	ATOM	959	2HG2	THR	A	69160.421	11.564	0.214	1.00	0.00	H
	ATOM	960	3HG2	THR	A	69159.732	10.473	1.416	1.00	0.00	H
5	ATOM	961	N	ARG	A	70160.528	7.590	2.608	1.00	0.00	N
	ATOM	962	CA	ARG	A	70159.721	6.993	3.665	1.00	0.00	C
	ATOM	963	C	ARG	A	70158.604	7.938	4.097	1.00	0.00	C
	ATOM	964	O	ARG	A	70158.855	9.085	4.463	1.00	0.00	O
	ATOM	965	CB	ARG	A	70160.598	6.640	4.867	1.00	0.00	C
10	ATOM	966	CG	ARG	A	70159.836	5.977	6.004	1.00	0.00	C
	ATOM	967	CD	ARG	A	70160.300	6.481	7.361	1.00	0.00	C
	ATOM	968	NE	ARG	A	70160.874	5.412	8.175	1.00	0.00	N
	ATOM	969	CZ	ARG	A	70161.488	5.614	9.338	1.00	0.00	C
	ATOM	970	NH1	ARG	A	70161.607	6.842	9.829	1.00	0.00	N
15	ATOM	971	NH2	ARG	A	70161.982	4.586	10.014	1.00	0.00	N
	ATOM	972	H	ARG	A	70161.472	7.783	2.779	1.00	0.00	H
	ATOM	973	HA	ARG	A	70159.279	6.088	3.274	1.00	0.00	H
	ATOM	974	1HB	ARG	A	70161.378	5.965	4.544	1.00	0.00	H
	ATOM	975	2HB	ARG	A	70161.052	7.544	5.245	1.00	0.00	H
20	ATOM	976	1HG	ARG	A	70158.784	6.193	5.892	1.00	0.00	H
	ATOM	977	2HG	ARG	A	70159.992	4.908	5.953	1.00	0.00	H
	ATOM	978	1HD	ARG	A	70161.046	7.247	7.213	1.00	0.00	H
	ATOM	979	2HD	ARG	A	70159.453	6.901	7.883	1.00	0.00	H
	ATOM	980	HE	ARG	A	70160.800	4.496	7.836	1.00	0.00	H
25	ATOM	981	1HH1	ARG	A	70161.237	7.621	9.325	1.00	0.00	H
	ATOM	982	2HH1	ARG	A	70162.069	6.987	10.705	1.00	0.00	H
	ATOM	983	1HH2	ARG	A	70161.894	3.659	9.650	1.00	0.00	H
	ATOM	984	2HH2	ARG	A	70162.443	4.738	10.889	1.00	0.00	H
	ATOM	985	N	TYR	A	71157.370	7.446	4.052	1.00	0.00	N

	ATOM	986	CA	TYR A	71156.214	8.246	4.439	1.00	0.00	C
	ATOM	987	C	TYR A	71155.763	7.901	5.855	1.00	0.00	C
	ATOM	988	O	TYR A	71155.335	8.772	6.611	1.00	0.00	O
	ATOM	989	CB	TYR A	71155.062	8.026	3.457	1.00	0.00	C
5	ATOM	990	CG	TYR A	71155.320	8.599	2.082	1.00	0.00	C
	ATOM	991	CD1	TYR A	71155.325	7.783	0.958	1.00	0.00	C
	ATOM	992	CD2	TYR A	71155.557	9.957	1.908	1.00	0.00	C
	ATOM	993	CE1	TYR A	71155.560	8.303	-0.301	1.00	0.00	C
	ATOM	994	CE2	TYR A	71155.793	10.485	0.652	1.00	0.00	C
10	ATOM	995	CZ	TYR A	71155.794	9.654	-0.448	1.00	0.00	C
	ATOM	996	OH	TYR A	71156.028	10.176	-1.700	1.00	0.00	O
	ATOM	997	H	TYR A	71157.233	6.523	3.751	1.00	0.00	H
	ATOM	998	HA	TYR A	71156.506	9.285	4.410	1.00	0.00	H
	ATOM	999	1HB	TYR A	71154.891	6.965	3.347	1.00	0.00	H
15	ATOM	1000	2HB	TYR A	71154.170	8.491	3.849	1.00	0.00	H
	ATOM	1001	HD1	TYR A	71155.142	6.725	1.076	1.00	0.00	H
	ATOM	1002	HD2	TYR A	71155.557	10.605	2.772	1.00	0.00	H
	ATOM	1003	HE1	TYR A	71155.561	7.653	-1.163	1.00	0.00	H
	ATOM	1004	HE2	TYR A	71155.976	11.543	0.538	1.00	0.00	H
20	ATOM	1005	HH	TYR A	71155.312	9.928	-2.289	1.00	0.00	H
	ATOM	1006	N	PHE A	72155.865	6.623	6.207	1.00	0.00	N
	ATOM	1007	CA	PHE A	72155.467	6.162	7.533	1.00	0.00	C
	ATOM	1008	C	PHE A	72156.458	5.134	8.069	1.00	0.00	C
	ATOM	1009	O	PHE A	72157.415	4.764	7.388	1.00	0.00	O
25	ATOM	1010	CB	PHE A	72154.063	5.558	7.486	1.00	0.00	C
	ATOM	1011	CG	PHE A	72153.887	4.530	6.405	1.00	0.00	C
	ATOM	1012	CD1	PHE A	72153.603	4.914	5.104	1.00	0.00	C
	ATOM	1013	CD2	PHE A	72154.006	3.179	6.690	1.00	0.00	C
	ATOM	1014	CE1	PHE A	72153.441	3.971	4.108	1.00	0.00	C

	ATOM	1015	CE2	PHE	A	72153.844	2.231	5.697	1.00	0.00	C
	ATOM	1016	CZ	PHE	A	72153.562	2.628	4.405	1.00	0.00	C
	ATOM	1017	H	PHE	A	72156.214	5.975	5.561	1.00	0.00	H
	ATOM	1018	HA	PHE	A	72155.461	7.017	8.192	1.00	0.00	H
5	ATOM	1019	1HB	PHE	A	72153.851	5.084	8.432	1.00	0.00	H
	ATOM	1020	2HB	PHE	A	72153.345	6.348	7.315	1.00	0.00	H
	ATOM	1021	HD1	PHE	A	72153.509	5.965	4.871	1.00	0.00	H
	ATOM	1022	HD2	PHE	A	72154.227	2.868	7.700	1.00	0.00	H
	ATOM	1023	HE1	PHE	A	72153.219	4.284	3.097	1.00	0.00	H
10	ATOM	1024	HE2	PHE	A	72153.939	1.181	5.932	1.00	0.00	H
	ATOM	1025	HZ	PHE	A	72153.435	1.888	3.628	1.00	0.00	H
	ATOM	1026	N	THR	A	73156.221	4.676	9.294	1.00	0.00	N
	ATOM	1027	CA	THR	A	73157.093	3.690	9.923	1.00	0.00	C
	ATOM	1028	C	THR	A	73156.375	2.353	10.085	1.00	0.00	C
15	ATOM	1029	O	THR	A	73155.407	2.245	10.838	1.00	0.00	O
	ATOM	1030	CB	THR	A	73157.569	4.194	11.287	1.00	0.00	C
	ATOM	1031	OG1	THR	A	73157.769	5.596	11.260	1.00	0.00	O
	ATOM	1032	CG2	THR	A	73158.861	3.554	11.744	1.00	0.00	C
	ATOM	1033	H	THR	A	73155.443	5.008	9.787	1.00	0.00	H
20	ATOM	1034	HA	THR	A	73157.950	3.549	9.283	1.00	0.00	H
	ATOM	1035	HB	THR	A	73156.810	3.974	12.025	1.00	0.00	H
	ATOM	1036	HG1	THR	A	73158.374	5.820	10.549	1.00	0.00	H
	ATOM	1037	1HG2	THR	A	73158.644	2.615	12.232	1.00	0.00	H
	ATOM	1038	2HG2	THR	A	73159.362	4.213	12.438	1.00	0.00	H
25	ATOM	1039	3HG2	THR	A	73159.498	3.378	10.890	1.00	0.00	H
	ATOM	1040	N	CYS	A	74156.856	1.339	9.374	1.00	0.00	N
	ATOM	1041	CA	CYS	A	74156.259	0.010	9.438	1.00	0.00	C
	ATOM	1042	C	CYS	A	74157.337	-1.069	9.474	1.00	0.00	C
	ATOM	1043	O	CYS	A	74158.530	-0.770	9.420	1.00	0.00	O

	ATOM	1044	CB	CYS A	74155.333	-0.215	8.241	1.00	0.00	C
	ATOM	1045	SG	CYS A	74153.621	0.290	8.527	1.00	0.00	S
	ATOM	1046	H	CYS A	74157.629	1.488	8.790	1.00	0.00	H
	ATOM	1047	HA	CYS A	74155.679	-0.049	10.346	1.00	0.00	H
5	ATOM	1048	1HB	CYS A	74155.705	0.347	7.398	1.00	0.00	H
	ATOM	1049	2HB	CYS A	74155.329	-1.267	7.992	1.00	0.00	H
	ATOM	1050	HG	CYS A	74153.631	1.051	9.113	1.00	0.00	H
	ATOM	1051	N	ALA A	75156.908	-2.324	9.562	1.00	0.00	N
	ATOM	1052	CA	ALA A	75157.836	-3.447	9.604	1.00	0.00	C
10	ATOM	1053	C	ALA A	75158.524	-3.641	8.257	1.00	0.00	C
	ATOM	1054	O	ALA A	75158.192	-2.974	7.277	1.00	0.00	O
	ATOM	1055	CB	ALA A	75157.108	-4.718	10.014	1.00	0.00	C
	ATOM	1056	H	ALA A	75155.945	-2.498	9.601	1.00	0.00	H
	ATOM	1057	HA	ALA A	75158.586	-3.232	10.352	1.00	0.00	H
15	ATOM	1058	1HB	ALA A	75156.868	-5.295	9.134	1.00	0.00	H
	ATOM	1059	2HB	ALA A	75156.197	-4.459	10.535	1.00	0.00	H
	ATOM	1060	3HB	ALA A	75157.741	-5.301	10.666	1.00	0.00	H
	ATOM	1061	N	LEU A	76159.485	-4.558	8.216	1.00	0.00	N
	ATOM	1062	CA	LEU A	76160.222	-4.840	6.989	1.00	0.00	C
20	ATOM	1063	C	LEU A	76159.471	-5.846	6.123	1.00	0.00	C
	ATOM	1064	O	LEU A	76158.917	-6.822	6.628	1.00	0.00	O
	ATOM	1065	CB	LEU A	76161.617	-5.374	7.317	1.00	0.00	C
	ATOM	1066	CG	LEU A	76162.644	-4.307	7.700	1.00	0.00	C
	ATOM	1067	CD1	LEU A	76163.639	-4.860	8.709	1.00	0.00	C
25	ATOM	1068	CD2	LEU A	76163.367	-3.795	6.463	1.00	0.00	C
	ATOM	1069	H	LEU A	76159.706	-5.056	9.031	1.00	0.00	H
	ATOM	1070	HA	LEU A	76160.320	-3.914	6.442	1.00	0.00	H
	ATOM	1071	1HB	LEU A	76161.529	-6.070	8.139	1.00	0.00	H
	ATOM	1072	2HB	LEU A	76161.988	-5.905	6.455	1.00	0.00	H

	ATOM	1073	HG	LEU A	76162.134	-3.472	8.159	1.00	0.00	H
	ATOM	1074	1HD1	LEU A	76163.261	-4.706	9.709	1.00	0.00	H
	ATOM	1075	2HD1	LEU A	76164.585	-4.352	8.600	1.00	0.00	H
	ATOM	1076	3HD1	LEU A	76163.777	-5.919	8.536	1.00	0.00	H
5	ATOM	1077	1HD2	LEU A	76162.751	-3.963	5.592	1.00	0.00	H
	ATOM	1078	2HD2	LEU A	76164.302	-4.323	6.349	1.00	0.00	H
	ATOM	1079	3HD2	LEU A	76163.560	-2.739	6.570	1.00	0.00	H
	ATOM	1080	N	LYS A	77159.456	-5.600	4.817	1.00	0.00	N
	ATOM	1081	CA	LYS A	77158.773	-6.486	3.881	1.00	0.00	C
10	ATOM	1082	C	LYS A	77157.282	-6.563	4.193	1.00	0.00	C
	ATOM	1083	O	LYS A	77156.676	-7.632	4.119	1.00	0.00	O
	ATOM	1084	CB	LYS A	77159.390	-7.885	3.928	1.00	0.00	C
	ATOM	1085	CG	LYS A	77160.875	-7.906	3.603	1.00	0.00	C
	ATOM	1086	CD	LYS A	77161.118	-7.884	2.103	1.00	0.00	C
15	ATOM	1087	CE	LYS A	77162.543	-7.467	1.776	1.00	0.00	C
	ATOM	1088	NZ	LYS A	77163.090	-8.220	0.614	1.00	0.00	N
	ATOM	1089	H	LYS A	77159.916	-4.805	4.475	1.00	0.00	H
	ATOM	1090	HA	LYS A	77158.900	-6.079	2.889	1.00	0.00	H
	ATOM	1091	1HB	LYS A	77159.255	-8.293	4.918	1.00	0.00	H
20	ATOM	1092	2HB	LYS A	77158.879	-8.515	3.215	1.00	0.00	H
	ATOM	1093	1HG	LYS A	77161.343	-7.040	4.047	1.00	0.00	H
	ATOM	1094	2HG	LYS A	77161.311	-8.804	4.017	1.00	0.00	H
	ATOM	1095	1HD	LYS A	77160.944	-8.872	1.705	1.00	0.00	H
	ATOM	1096	2HD	LYS A	77160.434	-7.183	1.648	1.00	0.00	H
25	ATOM	1097	1HE	LYS A	77162.551	-6.412	1.544	1.00	0.00	H
	ATOM	1098	2HE	LYS A	77163.166	-7.649	2.639	1.00	0.00	H
	ATOM	1099	1HZ	LYS A	77162.550	-7.995	-0.246	1.00	0.00	H
	ATOM	1100	2HZ	LYS A	77163.028	-9.244	0.790	1.00	0.00	H
	ATOM	1101	3HZ	LYS A	77164.088	-7.967	0.461	1.00	0.00	H

	ATOM	1102	N	LYS A	78156.696	-5.423	4.544	1.00	0.00	N
	ATOM	1103	CA	LYS A	78155.275	-5.362	4.868	1.00	0.00	C
	ATOM	1104	C	LYS A	78154.692	-4.001	4.500	1.00	0.00	C
	ATOM	1105	O	LYS A	78153.843	-3.465	5.212	1.00	0.00	O
5	ATOM	1106	CB	LYS A	78155.058	-5.638	6.357	1.00	0.00	C
	ATOM	1107	CG	LYS A	78155.577	-6.994	6.806	1.00	0.00	C
	ATOM	1108	CD	LYS A	78155.301	-7.234	8.282	1.00	0.00	C
	ATOM	1109	CE	LYS A	78154.066	-8.098	8.483	1.00	0.00	C
	ATOM	1110	NZ	LYS A	78153.349	-7.755	9.743	1.00	0.00	N
10	ATOM	1111	H	LYS A	78157.232	-4.604	4.586	1.00	0.00	H
	ATOM	1112	HA	LYS A	78154.772	-6.123	4.293	1.00	0.00	H
	ATOM	1113	1HB	LYS A	78155.565	-4.875	6.930	1.00	0.00	H
	ATOM	1114	2HB	LYS A	78154.001	-5.592	6.569	1.00	0.00	H
	ATOM	1115	1HG	LYS A	78155.089	-7.764	6.228	1.00	0.00	H
15	ATOM	1116	2HG	LYS A	78156.643	-7.035	6.636	1.00	0.00	H
	ATOM	1117	1HD	LYS A	78156.152	-7.734	8.720	1.00	0.00	H
	ATOM	1118	2HD	LYS A	78155.148	-6.283	8.769	1.00	0.00	H
	ATOM	1119	1HE	LYS A	78153.399	-7.950	7.649	1.00	0.00	H
	ATOM	1120	2HE	LYS A	78154.369	-9.134	8.522	1.00	0.00	H
20	ATOM	1121	1HZ	LYS A	78152.922	-8.610	10.155	1.00	0.00	H
	ATOM	1122	2HZ	LYS A	78152.597	-7.065	9.549	1.00	0.00	H
	ATOM	1123	3HZ	LYS A	78154.012	-7.345	10.431	1.00	0.00	H
	ATOM	1124	N	ALA A	79155.152	-3.448	3.382	1.00	0.00	N
	ATOM	1125	CA	ALA A	79154.674	-2.151	2.920	1.00	0.00	C
25	ATOM	1126	C	ALA A	79154.599	-2.103	1.397	1.00	0.00	C
	ATOM	1127	O	ALA A	79155.621	-2.002	0.719	1.00	0.00	O
	ATOM	1128	CB	ALA A	79155.576	-1.041	3.440	1.00	0.00	C
	ATOM	1129	H	ALA A	79155.828	-3.923	2.856	1.00	0.00	H
	ATOM	1130	HA	ALA A	79153.684	-1.996	3.324	1.00	0.00	H

	ATOM	1131	1HB	ALA	A	79155.178	-0.659	4.369	1.00	0.00	H
	ATOM	1132	2HB	ALA	A	79155.621	-0.243	2.714	1.00	0.00	H
	ATOM	1133	3HB	ALA	A	79156.569	-1.432	3.607	1.00	0.00	H
	ATOM	1134	N	LEU	A	80153.382	-2.177	0.868	1.00	0.00	N
5	ATOM	1135	CA	LEU	A	80153.172	-2.143	-0.576	1.00	0.00	C
	ATOM	1136	C	LEU	A	80152.306	-0.951	-0.970	1.00	0.00	C
	ATOM	1137	O	LEU	A	80151.157	-0.836	-0.541	1.00	0.00	O
	ATOM	1138	CB	LEU	A	80152.518	-3.443	-1.047	1.00	0.00	C
	ATOM	1139	CG	LEU	A	80152.189	-3.497	-2.540	1.00	0.00	C
10	ATOM	1140	CD1	LEU	A	80153.449	-3.741	-3.356	1.00	0.00	C
	ATOM	1141	CD2	LEU	A	80151.155	-4.579	-2.817	1.00	0.00	C
	ATOM	1142	H	LEU	A	80152.606	-2.257	1.462	1.00	0.00	H
	ATOM	1143	HA	LEU	A	80154.137	-2.043	-1.049	1.00	0.00	H
	ATOM	1144	1HB	LEU	A	80153.185	-4.261	-0.816	1.00	0.00	H
15	ATOM	1145	2HB	LEU	A	80151.601	-3.581	-0.494	1.00	0.00	H
	ATOM	1146	HG	LEU	A	80151.772	-2.549	-2.845	1.00	0.00	H
	ATOM	1147	1HD1	LEU	A	80153.391	-3.188	-4.282	1.00	0.00	H
	ATOM	1148	2HD1	LEU	A	80153.541	-4.794	-3.571	1.00	0.00	H
	ATOM	1149	3HD1	LEU	A	80154.311	-3.411	-2.794	1.00	0.00	H
20	ATOM	1150	1HD2	LEU	A	80150.553	-4.292	-3.666	1.00	0.00	H
	ATOM	1151	2HD2	LEU	A	80150.522	-4.703	-1.951	1.00	0.00	H
	ATOM	1152	3HD2	LEU	A	80151.658	-5.511	-3.032	1.00	0.00	H
	ATOM	1153	N	PHE	A	81152.863	-0.066	-1.789	1.00	0.00	N
	ATOM	1154	CA	PHE	A	81152.142	1.118	-2.242	1.00	0.00	C
25	ATOM	1155	C	PHE	A	81151.299	0.803	-3.473	1.00	0.00	C
	ATOM	1156	O	PHE	A	81151.736	0.083	-4.371	1.00	0.00	O
	ATOM	1157	CB	PHE	A	81153.123	2.249	-2.557	1.00	0.00	C
	ATOM	1158	CG	PHE	A	81153.763	2.847	-1.336	1.00	0.00	C
	ATOM	1159	CD1	PHE	A	81153.243	3.993	-0.757	1.00	0.00	C

	ATOM	1160	CD2	PHE	A	81154.883	2.260	-0.768	1.00	0.00	C
	ATOM	1161	CE1	PHE	A	81153.829	4.545	0.367	1.00	0.00	C
	ATOM	1162	CE2	PHE	A	81155.473	2.808	0.355	1.00	0.00	C
	ATOM	1163	CZ	PHE	A	81154.946	3.952	0.923	1.00	0.00	C
5	ATOM	1164	H	PHE	A	81153.783	-0.212	-2.096	1.00	0.00	H
	ATOM	1165	HA	PHE	A	81151.487	1.433	-1.443	1.00	0.00	H
	ATOM	1166	1HB	PHE	A	81153.910	1.868	-3.191	1.00	0.00	H
	ATOM	1167	2HB	PHE	A	81152.597	3.037	-3.077	1.00	0.00	H
	ATOM	1168	HD1	PHE	A	81152.370	4.457	-1.190	1.00	0.00	H
10	ATOM	1169	HD2	PHE	A	81155.296	1.367	-1.212	1.00	0.00	H
	ATOM	1170	HE1	PHE	A	81153.416	5.439	0.809	1.00	0.00	H
	ATOM	1171	HE2	PHE	A	81156.346	2.343	0.788	1.00	0.00	H
	ATOM	1172	HZ	PHE	A	81155.407	4.381	1.802	1.00	0.00	H
	ATOM	1173	N	VAL	A	82150.087	1.347	-3.509	1.00	0.00	N
15	ATOM	1174	CA	VAL	A	82149.182	1.124	-4.631	1.00	0.00	C
	ATOM	1175	C	VAL	A	82148.297	2.342	-4.873	1.00	0.00	C
	ATOM	1176	O	VAL	A	82148.200	3.229	-4.027	1.00	0.00	O
	ATOM	1177	CB	VAL	A	82148.288	-0.107	-4.394	1.00	0.00	C
	ATOM	1178	CG1	VAL	A	82149.115	-1.382	-4.425	1.00	0.00	C
20	ATOM	1179	CG2	VAL	A	82147.539	0.021	-3.077	1.00	0.00	C
	ATOM	1180	H	VAL	A	82149.794	1.912	-2.764	1.00	0.00	H
	ATOM	1181	HA	VAL	A	82149.780	0.945	-5.512	1.00	0.00	H
	ATOM	1182	HB	VAL	A	82147.561	-0.158	-5.192	1.00	0.00	H
	ATOM	1183	1HG1	VAL	A	82149.562	-1.499	-5.401	1.00	0.00	H
25	ATOM	1184	2HG1	VAL	A	82148.478	-2.230	-4.217	1.00	0.00	H
	ATOM	1185	3HG1	VAL	A	82149.893	-1.325	-3.677	1.00	0.00	H
	ATOM	1186	1HG2	VAL	A	82147.408	-0.959	-2.641	1.00	0.00	H
	ATOM	1187	2HG2	VAL	A	82146.572	0.469	-3.254	1.00	0.00	H
	ATOM	1188	3HG2	VAL	A	82148.106	0.644	-2.400	1.00	0.00	H



	ATOM	1189	N	LYS A	83147.652	2.375	-6.035	1.00	0.00	N
	ATOM	1190	CA	LYS A	83146.774	3.484	-6.390	1.00	0.00	C
	ATOM	1191	C	LYS A	83145.517	3.482	-5.528	1.00	0.00	C
	ATOM	1192	O	LYS A	83144.750	2.518	-5.530	1.00	0.00	O
5	ATOM	1193	CB	LYS A	83146.392	3.406	-7.870	1.00	0.00	C
	ATOM	1194	CG	LYS A	83147.588	3.405	-8.808	1.00	0.00	C
	ATOM	1195	CD	LYS A	83147.168	3.152	-10.247	1.00	0.00	C
	ATOM	1196	CE	LYS A	83147.976	3.993	-11.220	1.00	0.00	C
	ATOM	1197	NZ	LYS A	83148.286	3.250	-12.472	1.00	0.00	N
10	ATOM	1198	H	LYS A	83147.770	1.637	-6.669	1.00	0.00	H
	ATOM	1199	HA	LYS A	83147.313	4.403	-6.216	1.00	0.00	H
	ATOM	1200	1HB	LYS A	83145.830	2.498	-8.038	1.00	0.00	H
	ATOM	1201	2HB	LYS A	83145.770	4.254	-8.115	1.00	0.00	H
	ATOM	1202	1HG	LYS A	83148.078	4.366	-8.751	1.00	0.00	H
15	ATOM	1203	2HG	LYS A	83148.274	2.630	-8.501	1.00	0.00	H
	ATOM	1204	1HD	LYS A	83147.318	2.108	-10.477	1.00	0.00	H
	ATOM	1205	2HD	LYS A	83146.121	3.398	-10.354	1.00	0.00	H
	ATOM	1206	1HE	LYS A	83147.410	4.879	-11.469	1.00	0.00	H
	ATOM	1207	2HE	LYS A	83148.902	4.282	-10.744	1.00	0.00	H
20	ATOM	1208	1HZ	LYS A	83149.234	3.508	-12.816	1.00	0.00	H
	ATOM	1209	2HZ	LYS A	83147.589	3.481	-13.207	1.00	0.00	H
	ATOM	1210	3HZ	LYS A	83148.261	2.226	-12.296	1.00	0.00	H
	ATOM	1211	N	LEU A	84145.313	4.569	-4.792	1.00	0.00	N
	ATOM	1212	CA	LEU A	84144.151	4.700	-3.922	1.00	0.00	C
25	ATOM	1213	C	LEU A	84142.856	4.573	-4.719	1.00	0.00	C
	ATOM	1214	O	LEU A	84141.863	4.038	-4.227	1.00	0.00	O
	ATOM	1215	CB	LEU A	84144.189	6.045	-3.194	1.00	0.00	C
	ATOM	1216	CG	LEU A	84142.978	6.339	-2.308	1.00	0.00	C
	ATOM	1217	CD1	LEU A	84143.141	5.682	-0.946	1.00	0.00	C

	ATOM	1218	CD2	LEU A	84142.780	7.840	-2.158	1.00	0.00	C
	ATOM	1219	H	LEU A	84145.962	5.301	-4.836	1.00	0.00	H
	ATOM	1220	HA	LEU A	84144.191	3.905	-3.193	1.00	0.00	H
	ATOM	1221	1HB	LEU A	84145.075	6.071	-2.577	1.00	0.00	H
5	ATOM	1222	2HB	LEU A	84144.264	6.827	-3.934	1.00	0.00	H
	ATOM	1223	HG	LEU A	84142.091	5.928	-2.771	1.00	0.00	H
	ATOM	1224	1HD1	LEU A	84143.630	4.727	-1.063	1.00	0.00	H
	ATOM	1225	2HD1	LEU A	84142.169	5.537	-0.497	1.00	0.00	H
	ATOM	1226	3HD1	LEU A	84143.739	6.318	-0.309	1.00	0.00	H
10	ATOM	1227	1HD2	LEU A	84141.894	8.030	-1.571	1.00	0.00	H
	ATOM	1228	2HD2	LEU A	84142.667	8.287	-3.134	1.00	0.00	H
	ATOM	1229	3HD2	LEU A	84143.639	8.268	-1.663	1.00	0.00	H
	ATOM	1230	N	LYS A	85142.875	5.070	-5.951	1.00	0.00	N
	ATOM	1231	CA	LYS A	85141.701	5.014	-6.815	1.00	0.00	C
15	ATOM	1232	C	LYS A	85141.332	3.569	-7.138	1.00	0.00	C
	ATOM	1233	O	LYS A	85140.173	3.263	-7.421	1.00	0.00	O
	ATOM	1234	CB	LYS A	85141.958	5.788	-8.109	1.00	0.00	C
	ATOM	1235	CG	LYS A	85143.098	5.223	-8.941	1.00	0.00	C
	ATOM	1236	CD	LYS A	85143.604	6.236	-9.955	1.00	0.00	C
20	ATOM	1237	CE	LYS A	85144.941	5.817	-10.542	1.00	0.00	C
	ATOM	1238	NZ	LYS A	85145.553	6.900	-11.362	1.00	0.00	N
	ATOM	1239	H	LYS A	85143.696	5.486	-6.287	1.00	0.00	H
	ATOM	1240	HA	LYS A	85140.879	5.473	-6.289	1.00	0.00	H
	ATOM	1241	1HB	LYS A	85141.060	5.770	-8.710	1.00	0.00	H
25	ATOM	1242	2HB	LYS A	85142.195	6.812	-7.862	1.00	0.00	H
	ATOM	1243	1HG	LYS A	85143.910	4.952	-8.283	1.00	0.00	H
	ATOM	1244	2HG	LYS A	85142.748	4.346	-9.465	1.00	0.00	H
	ATOM	1245	1HD	LYS A	85142.882	6.323	-10.753	1.00	0.00	H
	ATOM	1246	2HD	LYS A	85143.719	7.193	-9.466	1.00	0.00	H

	ATOM	1247	1HE	LYS A	85145.613	5.567	-9.734	1.00	0.00	H
	ATOM	1248	2HE	LYS A	85144.790	4.948	-11.165	1.00	0.00	H
	ATOM	1249	1HZ	LYS A	85145.891	7.666	-10.746	1.00	0.00	H
	ATOM	1250	2HZ	LYS A	85144.850	7.287	-12.023	1.00	0.00	H
5	ATOM	1251	3HZ	LYS A	85146.356	6.526	-11.906	1.00	0.00	H
	ATOM	1252	N	SER A	86142.322	2.682	-7.094	1.00	0.00	N
	ATOM	1253	CA	SER A	86142.098	1.271	-7.381	1.00	0.00	C
	ATOM	1254	C	SER A	86142.057	0.453	-6.095	1.00	0.00	C
	ATOM	1255	O	SER A	86142.443	-0.716	-6.079	1.00	0.00	O
10	ATOM	1256	CB	SER A	86143.194	0.737	-8.305	1.00	0.00	C
	ATOM	1257	OG	SER A	86143.269	1.496	-9.499	1.00	0.00	O
	ATOM	1258	H	SER A	86143.225	2.984	-6.862	1.00	0.00	H
	ATOM	1259	HA	SER A	86141.144	1.182	-7.881	1.00	0.00	H
	ATOM	1260	1HB	SER A	86144.146	0.792	-7.799	1.00	0.00	H
15	ATOM	1261	2HB	SER A	86142.980	-0.290	-8.558	1.00	0.00	H
	ATOM	1262	HG	SER A	86142.385	1.639	-9.845	1.00	0.00	H
	ATOM	1263	N	CYS A	87141.587	1.075	-5.018	1.00	0.00	N
	ATOM	1264	CA	CYS A	87141.496	0.404	-3.726	1.00	0.00	C
	ATOM	1265	C	CYS A	87140.043	0.114	-3.366	1.00	0.00	C
20	ATOM	1266	O	CYS A	87139.125	0.737	-3.901	1.00	0.00	O
	ATOM	1267	CB	CYS A	87142.143	1.260	-2.637	1.00	0.00	C
	ATOM	1268	SG	CYS A	87143.948	1.167	-2.600	1.00	0.00	S
	ATOM	1269	H	CYS A	87141.296	2.007	-5.094	1.00	0.00	H
	ATOM	1270	HA	CYS A	87142.029	-0.532	-3.801	1.00	0.00	H
25	ATOM	1271	1HB	CYS A	87141.871	2.293	-2.792	1.00	0.00	H
	ATOM	1272	2HB	CYS A	87141.777	0.938	-1.673	1.00	0.00	H
	ATOM	1273	HG	CYS A	87144.265	1.809	-1.959	1.00	0.00	H
	ATOM	1274	N	ARG A	88139.840	-0.834	-2.458	1.00	0.00	N
	ATOM	1275	CA	ARG A	88138.497	-1.205	-2.028	1.00	0.00	C

	ATOM	1276	C	ARG A	88138.413	-1.271	-0.503	1.00	0.00	C
	ATOM	1277	O	ARG A	88139.296	-1.826	0.151	1.00	0.00	O
	ATOM	1278	CB	ARG A	88138.102	-2.555	-2.631	1.00	0.00	C
	ATOM	1279	CG	ARG A	88137.308	-2.435	-3.921	1.00	0.00	C
5	ATOM	1280	CD	ARG A	88135.810	-2.459	-3.658	1.00	0.00	C
	ATOM	1281	NE	ARG A	88135.049	-1.912	-4.778	1.00	0.00	N
	ATOM	1282	CZ	ARG A	88133.789	-1.490	-4.682	1.00	0.00	C
	ATOM	1283	NH1	ARG A	88133.148	-1.550	-3.522	1.00	0.00	N
	ATOM	1284	NH2	ARG A	88133.171	-1.005	-5.749	1.00	0.00	N
10	ATOM	1285	H	ARG A	88140.612	-1.296	-2.068	1.00	0.00	H
	ATOM	1286	HA	ARG A	88137.816	-0.449	-2.386	1.00	0.00	H
	ATOM	1287	1HB	ARG A	88138.998	-3.121	-2.836	1.00	0.00	H
	ATOM	1288	2HB	ARG A	88137.502	-3.096	-1.914	1.00	0.00	H
	ATOM	1289	1HG	ARG A	88137.563	-1.504	-4.405	1.00	0.00	H
15	ATOM	1290	2HG	ARG A	88137.564	-3.262	-4.568	1.00	0.00	H
	ATOM	1291	1HD	ARG A	88135.504	-3.481	-3.491	1.00	0.00	H
	ATOM	1292	2HD	ARG A	88135.604	-1.873	-2.773	1.00	0.00	H
	ATOM	1293	HE	ARG A	88135.498	-1.856	-5.647	1.00	0.00	H
	ATOM	1294	1HH1	ARG A	88133.608	-1.915	-2.713	1.00	0.00	H
20	ATOM	1295	2HH1	ARG A	88132.203	-1.231	-3.456	1.00	0.00	H
	ATOM	1296	1HH2	ARG A	88133.649	-0.958	-6.626	1.00	0.00	H
	ATOM	1297	2HH2	ARG A	88132.225	-0.688	-5.678	1.00	0.00	H
	ATOM	1298	N	PRO A	89137.344	-0.704	0.089	1.00	0.00	N
	ATOM	1299	CA	PRO A	89137.157	-0.707	1.544	1.00	0.00	C
25	ATOM	1300	C	PRO A	89137.223	-2.113	2.132	1.00	0.00	C
	ATOM	1301	O	PRO A	89136.564	-3.031	1.646	1.00	0.00	O
	ATOM	1302	CB	PRO A	89135.757	-0.117	1.729	1.00	0.00	C
	ATOM	1303	CG	PRO A	89135.519	0.693	0.503	1.00	0.00	C
	ATOM	1304	CD	PRO A	89136.239	-0.019	-0.608	1.00	0.00	C

	ATOM	1305	HA	PRO A	89137.884	-0.079	2.037	1.00	0.00	H
	ATOM	1306	1HB	PRO A	89135.037	-0.916	1.822	1.00	0.00	H
	ATOM	1307	2HB	PRO A	89135.737	0.498	2.617	1.00	0.00	H
	ATOM	1308	1HG	PRO A	89134.461	0.740	0.294	1.00	0.00	H
5	ATOM	1309	2HG	PRO A	89135.922	1.686	0.635	1.00	0.00	H
	ATOM	1310	1HD	PRO A	89135.584	-0.732	-1.086	1.00	0.00	H
	ATOM	1311	2HD	PRO A	89136.619	0.691	-1.326	1.00	0.00	H
	ATOM	1312	N	ASP A	90138.021	-2.273	3.183	1.00	0.00	N
	ATOM	1313	CA	ASP A	90138.172	-3.568	3.838	1.00	0.00	C
10	ATOM	1314	C	ASP A	90137.378	-3.612	5.140	1.00	0.00	C
	ATOM	1315	O	ASP A	90137.759	-2.992	6.133	1.00	0.00	O
	ATOM	1316	CB	ASP A	90139.648	-3.854	4.116	1.00	0.00	C
	ATOM	1317	CG	ASP A	90139.948	-5.339	4.174	1.00	0.00	C
	ATOM	1318	OD1	ASP A	90140.366	-5.819	5.248	1.00	0.00	O
15	ATOM	1319	OD2	ASP A	90139.764	-6.022	3.144	1.00	0.00	O
	ATOM	1320	H	ASP A	90138.520	-1.503	3.526	1.00	0.00	H
	ATOM	1321	HA	ASP A	90137.787	-4.323	3.170	1.00	0.00	H
	ATOM	1322	1HB	ASP A	90140.247	-3.414	3.333	1.00	0.00	H
	ATOM	1323	2HB	ASP A	90139.921	-3.412	5.063	1.00	0.00	H
20	ATOM	1324	N	SER A	91136.274	-4.352	5.129	1.00	0.00	N
	ATOM	1325	CA	SER A	91135.426	-4.478	6.310	1.00	0.00	C
	ATOM	1326	C	SER A	91135.724	-5.774	7.057	1.00	0.00	C
	ATOM	1327	O	SER A	91134.840	-6.355	7.688	1.00	0.00	O
	ATOM	1328	CB	SER A	91133.950	-4.434	5.911	1.00	0.00	C
25	ATOM	1329	OG	SER A	91133.158	-3.879	6.947	1.00	0.00	O
	ATOM	1330	H	SER A	91136.023	-4.823	4.308	1.00	0.00	H
	ATOM	1331	HA	SER A	91135.639	-3.644	6.961	1.00	0.00	H
	ATOM	1332	1HB	SER A	91133.837	-3.827	5.024	1.00	0.00	H
	ATOM	1333	2HB	SER A	91133.605	-5.436	5.708	1.00	0.00	H

	ATOM	1334	HG	SER A	91132.243	-3.834	6.660	1.00	0.00	H
	ATOM	1335	N	ARG A	92136.972	-6.223	6.981	1.00	0.00	N
	ATOM	1336	CA	ARG A	92137.384	-7.451	7.650	1.00	0.00	C
	ATOM	1337	C	ARG A	92137.327	-7.291	9.166	1.00	0.00	C
5	ATOM	1338	O	ARG A	92137.085	-8.254	9.893	1.00	0.00	O
	ATOM	1339	CB	ARG A	92138.798	-7.842	7.220	1.00	0.00	C
	ATOM	1340	CG	ARG A	92138.835	-8.741	5.995	1.00	0.00	C
	ATOM	1341	CD	ARG A	92140.147	-9.503	5.902	1.00	0.00	C
	ATOM	1342	NE	ARG A	92140.288	-10.485	6.976	1.00	0.00	N
10	ATOM	1343	CZ	ARG A	92139.667	-11.663	6.989	1.00	0.00	C
	ATOM	1344	NH1	ARG A	92138.865	-12.010	5.991	1.00	0.00	N
	ATOM	1345	NH2	ARG A	92139.851	-12.496	8.004	1.00	0.00	N
	ATOM	1346	H	ARG A	92137.632	-5.717	6.462	1.00	0.00	H
	ATOM	1347	HA	ARG A	92136.700	-8.234	7.358	1.00	0.00	H
15	ATOM	1348	1HB	ARG A	92139.355	-6.944	6.997	1.00	0.00	H
	ATOM	1349	2HB	ARG A	92139.281	-8.361	8.035	1.00	0.00	H
	ATOM	1350	1HG	ARG A	92138.022	-9.450	6.056	1.00	0.00	H
	ATOM	1351	2HG	ARG A	92138.719	-8.133	5.109	1.00	0.00	H
	ATOM	1352	1HD	ARG A	92140.185	-10.016	4.953	1.00	0.00	H
20	ATOM	1353	2HD	ARG A	92140.963	-8.798	5.962	1.00	0.00	H
	ATOM	1354	HE	ARG A	92140.875	-10.253	7.725	1.00	0.00	H
	ATOM	1355	1HH1	ARG A	92138.722	-11.386	5.223	1.00	0.00	H
	ATOM	1356	2HH1	ARG A	92138.403	-12.896	6.007	1.00	0.00	H
	ATOM	1357	1HH2	ARG A	92140.455	-12.240	8.758	1.00	0.00	H
25	ATOM	1358	2HH2	ARG A	92139.385	-13.381	8.014	1.00	0.00	H
	ATOM	1359	N	PHE A	93137.554	-6.068	9.637	1.00	0.00	N
	ATOM	1360	CA	PHE A	93137.528	-5.782	11.067	1.00	0.00	C
	ATOM	1361	C	PHE A	93136.525	-4.678	11.385	1.00	0.00	C
	ATOM	1362	O	PHE A	93136.707	-3.917	12.335	1.00	0.00	O

	ATOM	1363	CB	PHE A	93138.921	-5.377	11.551	1.00	0.00	C
	ATOM	1364	CG	PHE A	93139.888	-6.524	11.626	1.00	0.00	C
	ATOM	1365	CD1	PHE A	93140.464	-6.884	12.834	1.00	0.00	C
	ATOM	1366	CD2	PHE A	93140.221	-7.243	10.489	1.00	0.00	C
5	ATOM	1367	CE1	PHE A	93141.354	-7.938	12.907	1.00	0.00	C
	ATOM	1368	CE2	PHE A	93141.111	-8.298	10.555	1.00	0.00	C
	ATOM	1369	CZ	PHE A	93141.677	-8.646	11.765	1.00	0.00	C
	ATOM	1370	H	PHE A	93137.741	-5.341	9.007	1.00	0.00	H
	ATOM	1371	HA	PHE A	93137.227	-6.684	11.579	1.00	0.00	H
10	ATOM	1372	1HB	PHE A	93139.330	-4.642	10.874	1.00	0.00	H
	ATOM	1373	2HB	PHE A	93138.839	-4.945	12.537	1.00	0.00	H
	ATOM	1374	HD1	PHE A	93140.212	-6.330	13.727	1.00	0.00	H
	ATOM	1375	HD2	PHE A	93139.778	-6.971	9.543	1.00	0.00	H
	ATOM	1376	HE1	PHE A	93141.796	-8.208	13.854	1.00	0.00	H
15	ATOM	1377	HE2	PHE A	93141.361	-8.850	9.662	1.00	0.00	H
	ATOM	1378	HZ	PHE A	93142.373	-9.471	11.820	1.00	0.00	H
	ATOM	1379	N	ALA A	94135.467	-4.596	10.586	1.00	0.00	N
	ATOM	1380	CA	ALA A	94134.436	-3.584	10.785	1.00	0.00	C
	ATOM	1381	C	ALA A	94133.274	-4.138	11.602	1.00	0.00	C
20	ATOM	1382	O	ALA A	94132.658	-5.136	11.227	1.00	0.00	O
	ATOM	1383	CB	ALA A	94133.940	-3.064	9.444	1.00	0.00	C
	ATOM	1384	H	ALA A	94135.376	-5.231	9.844	1.00	0.00	H
	ATOM	1385	HA	ALA A	94134.879	-2.759	11.322	1.00	0.00	H
	ATOM	1386	1HB	ALA A	94133.035	-3.584	9.169	1.00	0.00	H
25	ATOM	1387	2HB	ALA A	94134.696	-3.235	8.691	1.00	0.00	H
	ATOM	1388	3HB	ALA A	94133.739	-2.007	9.520	1.00	0.00	H
	ATOM	1389	N	SER A	95132.980	-3.485	12.721	1.00	0.00	N
	ATOM	1390	CA	SER A	95131.891	-3.913	13.593	1.00	0.00	C
	ATOM	1391	C	SER A	95130.740	-2.913	13.557	1.00	0.00	C

	ATOM	1392	O	SER A	95130.944	-1.724	13.314	1.00	0.00	O
	ATOM	1393	CB	SER A	95132.394	-4.078	15.028	1.00	0.00	C
	ATOM	1394	OG	SER A	95131.383	-4.612	15.865	1.00	0.00	O
	ATOM	1395	H	SER A	95133.508	-2.696	12.967	1.00	0.00	H
5	ATOM	1396	HA	SER A	95131.535	-4.867	13.234	1.00	0.00	H
	ATOM	1397	1HB	SER A	95133.240	-4.748	15.035	1.00	0.00	H
	ATOM	1398	2HB	SER A	95132.695	-3.115	15.415	1.00	0.00	H
	ATOM	1399	HG	SER A	95131.061	-5.436	15.493	1.00	0.00	H
	ATOM	1400	N	LEU A	96129.529	-3.404	13.802	1.00	0.00	N
10	ATOM	1401	CA	LEU A	96128.344	-2.554	13.798	1.00	0.00	C
	ATOM	1402	C	LEU A	96127.403	-2.931	14.938	1.00	0.00	C
	ATOM	1403	O	LEU A	96126.670	-3.916	14.852	1.00	0.00	O
	ATOM	1404	CB	LEU A	96127.616	-2.665	12.456	1.00	0.00	C
	ATOM	1405	CG	LEU A	96127.763	-1.451	11.537	1.00	0.00	C
15	ATOM	1406	CD1	LEU A	96129.230	-1.182	11.239	1.00	0.00	C
	ATOM	1407	CD2	LEU A	96126.985	-1.664	10.247	1.00	0.00	C
	ATOM	1408	H	LEU A	96129.430	-4.361	13.989	1.00	0.00	H
	ATOM	1409	HA	LEU A	96128.669	-1.534	13.938	1.00	0.00	H
	ATOM	1410	1HB	LEU A	96127.996	-3.533	11.936	1.00	0.00	H
20	ATOM	1411	2HB	LEU A	96126.564	-2.816	12.649	1.00	0.00	H
	ATOM	1412	HG	LEU A	96127.358	-0.581	12.034	1.00	0.00	H
	ATOM	1413	1HD1	LEU A	96129.616	-0.468	11.952	1.00	0.00	H
	ATOM	1414	2HD1	LEU A	96129.327	-0.782	10.241	1.00	0.00	H
	ATOM	1415	3HD1	LEU A	96129.788	-2.103	11.315	1.00	0.00	H
25	ATOM	1416	1HD2	LEU A	96125.972	-1.959	10.481	1.00	0.00	H
	ATOM	1417	2HD2	LEU A	96127.460	-2.438	9.663	1.00	0.00	H
	ATOM	1418	3HD2	LEU A	96126.969	-0.743	9.681	1.00	0.00	H
	ATOM	1419	N	GLN A	97127.429	-2.139	16.006	1.00	0.00	N
	ATOM	1420	CA	GLN A	97126.577	-2.389	17.163	1.00	0.00	C



	ATOM	1421	C	GLN A	97126.881	-3.753	17.778	1.00	0.00	C
	ATOM	1422	O	GLN A	97126.251	-4.753	17.433	1.00	0.00	O
	ATOM	1423	CB	GLN A	97125.102	-2.314	16.763	1.00	0.00	C
	ATOM	1424	CG	GLN A	97124.743	-1.048	16.001	1.00	0.00	C
5	ATOM	1425	CD	GLN A	97124.686	0.175	16.897	1.00	0.00	C
	ATOM	1426	OE1	GLN A	97123.756	0.338	17.686	1.00	0.00	O
	ATOM	1427	NE2	GLN A	97125.684	1.041	16.778	1.00	0.00	N
	ATOM	1428	H	GLN A	97128.035	-1.369	16.015	1.00	0.00	H
	ATOM	1429	HA	GLN A	97126.782	-1.623	17.896	1.00	0.00	H
10	ATOM	1430	1HB	GLN A	97124.867	-3.162	16.139	1.00	0.00	H
	ATOM	1431	2HB	GLN A	97124.497	-2.355	17.656	1.00	0.00	H
	ATOM	1432	1HG	GLN A	97125.485	-0.880	15.236	1.00	0.00	H
	ATOM	1433	2HG	GLN A	97123.775	-1.184	15.540	1.00	0.00	H
	ATOM	1434	1HE2	GLN A	97126.392	0.846	16.128	1.00	0.00	H
15	ATOM	1435	2HE2	GLN A	97125.673	1.841	17.345	1.00	0.00	H
	ATOM	1436	N	PRO A	98127.854	-3.812	18.702	1.00	0.00	N
	ATOM	1437	CA	PRO A	98128.239	-5.063	19.366	1.00	0.00	C
	ATOM	1438	C	PRO A	98127.043	-5.789	19.971	1.00	0.00	C
	ATOM	1439	O	PRO A	98127.044	-7.014	20.094	1.00	0.00	O
20	ATOM	1440	CB	PRO A	98129.197	-4.602	20.467	1.00	0.00	C
	ATOM	1441	CG	PRO A	98129.755	-3.315	19.969	1.00	0.00	C
	ATOM	1442	CD	PRO A	98128.656	-2.668	19.173	1.00	0.00	C
	ATOM	1443	HA	PRO A	98128.755	-5.726	18.689	1.00	0.00	H
	ATOM	1444	1HB	PRO A	98128.652	-4.467	21.389	1.00	0.00	H
25	ATOM	1445	2HB	PRO A	98129.973	-5.341	20.605	1.00	0.00	H
	ATOM	1446	1HG	PRO A	98130.034	-2.688	20.803	1.00	0.00	H
	ATOM	1447	2HG	PRO A	98130.611	-3.505	19.338	1.00	0.00	H
	ATOM	1448	1HD	PRO A	98128.067	-2.017	19.803	1.00	0.00	H
	ATOM	1449	2HD	PRO A	98129.067	-2.117	18.340	1.00	0.00	H

	ATOM	1450	N	SER A	99126.021	-5.025	20.346	1.00	0.00	N
	ATOM	1451	CA	SER A	99124.818	-5.596	20.940	1.00	0.00	C
	ATOM	1452	C	SER A	99123.564	-4.983	20.323	1.00	0.00	C
	ATOM	1453	O	SER A	99123.584	-3.845	19.855	1.00	0.00	O
5	ATOM	1454	CB	SER A	99124.815	-5.377	22.453	1.00	0.00	C
	ATOM	1455	OG	SER A	99125.417	-6.469	23.127	1.00	0.00	O
	ATOM	1456	H	SER A	99126.079	-4.054	20.222	1.00	0.00	H
	ATOM	1457	HA	SER A	99124.820	-6.657	20.738	1.00	0.00	H
	ATOM	1458	1HB	SER A	99125.367	-4.479	22.686	1.00	0.00	H
10	ATOM	1459	2HB	SER A	99123.797	-5.273	22.798	1.00	0.00	H
	ATOM	1460	HG	SER A	99124.734	-7.021	23.516	1.00	0.00	H
	ATOM	1461	N	GLY A	100122.475	-5.744	20.327	1.00	0.00	N
	ATOM	1462	CA	GLY A	100121.229	-5.258	19.766	1.00	0.00	C
	ATOM	1463	C	GLY A	100120.594	-4.171	20.614	1.00	0.00	C
15	ATOM	1464	O	GLY A	100120.434	-3.039	20.157	1.00	0.00	O
	ATOM	1465	H	GLY A	100122.518	-6.644	20.714	1.00	0.00	H
	ATOM	1466	1HA	GLY A	100121.420	-4.864	18.779	1.00	0.00	H
	ATOM	1467	2HA	GLY A	100120.537	-6.085	19.685	1.00	0.00	H
	ATOM	1468	N	PRO A	101120.221	-4.486	21.866	1.00	0.00	N
20	ATOM	1469	CA	PRO A	101119.600	-3.515	22.773	1.00	0.00	C
	ATOM	1470	C	PRO A	101120.582	-2.443	23.233	1.00	0.00	C
	ATOM	1471	O	PRO A	101121.475	-2.709	24.038	1.00	0.00	O
	ATOM	1472	CB	PRO A	101119.150	-4.372	23.959	1.00	0.00	C
	ATOM	1473	CG	PRO A	101120.062	-5.549	23.942	1.00	0.00	C
25	ATOM	1474	CD	PRO A	101120.374	-5.812	22.495	1.00	0.00	C
	ATOM	1475	HA	PRO A	101118.741	-3.043	22.319	1.00	0.00	H
	ATOM	1476	1HB	PRO A	101119.249	-3.806	24.873	1.00	0.00	H
	ATOM	1477	2HB	PRO A	101118.121	-4.669	23.821	1.00	0.00	H
	ATOM	1478	1HG	PRO A	101120.966	-5.320	24.485	1.00	0.00	H

	ATOM	1479	2HG	PRO A	101119.566	-6.403	24.379	1.00	0.00	H
	ATOM	1480	1HD	PRO A	101121.386	-6.175	22.387	1.00	0.00	H
	ATOM	1481	2HD	PRO A	101119.671	-6.518	22.079	1.00	0.00	H
	ATOM	1482	N	SER A	102120.410	-1.230	22.718	1.00	0.00	N
5	ATOM	1483	CA	SER A	102121.282	-0.117	23.077	1.00	0.00	C
	ATOM	1484	C	SER A	102120.786	0.576	24.341	1.00	0.00	C
	ATOM	1485	O	SER A	102121.581	1.051	25.153	1.00	0.00	O
	ATOM	1486	CB	SER A	102121.358	0.889	21.926	1.00	0.00	C
	ATOM	1487	OG	SER A	102120.064	1.307	21.527	1.00	0.00	O
10	ATOM	1488	H	SER A	102119.679	-1.080	22.081	1.00	0.00	H
	ATOM	1489	HA	SER A	102122.268	-0.515	23.261	1.00	0.00	H
	ATOM	1490	1HB	SER A	102121.918	1.755	22.245	1.00	0.00	H
	ATOM	1491	2HB	SER A	102121.851	0.430	21.082	1.00	0.00	H
	ATOM	1492	HG	SER A	102119.966	2.248	21.690	1.00	0.00	H
15	ATOM	1493	N	SER A	103119.468	0.630	24.503	1.00	0.00	N
	ATOM	1494	CA	SER A	103118.867	1.265	25.670	1.00	0.00	C
	ATOM	1495	C	SER A	103119.270	0.543	26.952	1.00	0.00	C
	ATOM	1496	O	SER A	103118.782	-0.550	27.240	1.00	0.00	O
	ATOM	1497	CB	SER A	103117.343	1.283	25.539	1.00	0.00	C
20	ATOM	1498	OG	SER A	103116.799	2.484	26.058	1.00	0.00	O
	ATOM	1499	H	SER A	103118.886	0.234	23.821	1.00	0.00	H
	ATOM	1500	HA	SER A	103119.226	2.282	25.716	1.00	0.00	H
	ATOM	1501	1HB	SER A	103117.073	1.202	24.497	1.00	0.00	H
	ATOM	1502	2HB	SER A	103116.927	0.448	26.083	1.00	0.00	H
25	ATOM	1503	HG	SER A	103116.312	2.293	26.864	1.00	0.00	H
	ATOM	1504	N	GLY A	104120.165	1.160	27.717	1.00	0.00	N
	ATOM	1505	CA	GLY A	104120.618	0.561	28.957	1.00	0.00	C
	ATOM	1506	C	GLY A	104119.539	0.545	30.022	1.00	0.00	C
	ATOM	1507	O	GLY A	104119.748	-0.103	31.070	1.00	0.00	O

ATOM 1508 OXT GLY A 104118.485 1.179 29.809 1.00 0.00 O  
ATOM 1509 H GLY A 104120.520 2.029 27.436 1.00 0.00 H  
ATOM 1510 1HA GLY A 104120.930 -0.455 28.762 1.00 0.00 H  
ATOM 1511 2HA GLY A 104121.464 1.121 29.327 1.00 0.00 H  
5 TER 1512 GLY A 104  
ENDMDL

## 立体構造座標表 2

ATOM 1 N GLY A 1105.215 7.354 -0.195 1.00 0.00 N  
10 ATOM 2 CA GLY A 1106.288 6.361 -0.481 1.00 0.00 C  
ATOM 3 C GLY A 1107.290 6.250 0.651 1.00 0.00 C  
ATOM 4 O GLY A 1107.077 6.795 1.734 1.00 0.00 O  
ATOM 5 1H GLY A 1105.533 8.026 0.533 1.00 0.00 H  
ATOM 6 2H GLY A 1104.360 6.869 0.147 1.00 0.00 H  
15 ATOM 7 3H GLY A 1104.976 7.882 -1.060 1.00 0.00 H  
ATOM 8 1HA GLY A 1105.834 5.395 -0.642 1.00 0.00 H  
ATOM 9 2HA GLY A 1106.807 6.659 -1.380 1.00 0.00 H  
ATOM10 N SER A 2108.386 5.542 0.400 1.00 0.00 N  
ATOM11 CA SER A 2109.426 5.360 1.405 1.00 0.00 C  
20 ATOM12 C SER A 2110.256 6.629 1.565 1.00 0.00 C  
ATOM13 O SER A 2110.259 7.496 0.691 1.00 0.00 O  
ATOM14 CB SER A 2110.332 4.187 1.026 1.00 0.00 C  
ATOM15 OG SER A 2109.867 2.977 1.597 1.00 0.00 O  
ATOM16 H SER A 2108.498 5.132 -0.484 1.00 0.00 H  
25 ATOM17 HA SER A 2108.942 5.140 2.346 1.00 0.00 H  
ATOM18 1HB SER A 2110.348 4.080 -0.048 1.00 0.00 H  
ATOM19 2HB SER A 2111.334 4.379 1.384 1.00 0.00 H  
ATOM20 HG SER A 2110.095 2.955 2.530 1.00 0.00 H  
ATOM21 N SER A 3110.962 6.731 2.687 1.00 0.00 N

	ATOM22	CA	SER A	3111.797	7.894	2.960	1.00	0.00	C
	ATOM23	C	SER A	3113.078	7.853	2.131	1.00	0.00	C
	ATOM24	O	SER A	3113.500	8.866	1.573	1.00	0.00	O
	ATOM25	CB	SER A	3112.142	7.961	4.450	1.00	0.00	C
5	ATOM26	OG	SER A	3113.199	7.072	4.769	1.00	0.00	O
	ATOM27	H	SER A	3110.920	6.008	3.346	1.00	0.00	H
	ATOM28	HA	SER A	3111.237	8.777	2.690	1.00	0.00	H
	ATOM29	1HB	SER A	3112.447	8.967	4.702	1.00	0.00	H
	ATOM30	2HB	SER A	3111.272	7.692	5.031	1.00	0.00	H
10	ATOM31	HG	SER A	3112.849	6.184	4.872	1.00	0.00	H
	ATOM32	N	GLY A	4113.690	6.676	2.056	1.00	0.00	N
	ATOM33	CA	GLY A	4114.915	6.525	1.294	1.00	0.00	C
	ATOM34	C	GLY A	4116.155	6.661	2.156	1.00	0.00	C
	ATOM35	O	GLY A	4116.173	7.435	3.112	1.00	0.00	O
15	ATOM36	H	GLY A	4113.307	5.904	2.523	1.00	0.00	H
	ATOM37	1HA	GLY A	4114.918	5.550	0.828	1.00	0.00	H
	ATOM38	2HA	GLY A	4114.941	7.280	0.523	1.00	0.00	H
	ATOM39	N	SER A	5117.194	5.905	1.817	1.00	0.00	N
	ATOM40	CA	SER A	5118.444	5.943	2.567	1.00	0.00	C
20	ATOM41	C	SER A	5119.548	5.197	1.823	1.00	0.00	C
	ATOM42	O	SER A	5119.739	3.997	2.018	1.00	0.00	O
	ATOM43	CB	SER A	5118.248	5.336	3.957	1.00	0.00	C
	ATOM44	OG	SER A	5117.949	3.954	3.871	1.00	0.00	O
	ATOM45	H	SER A	5117.119	5.306	1.044	1.00	0.00	H
25	ATOM46	HA	SER A	5118.734	6.978	2.673	1.00	0.00	H
	ATOM47	1HB	SER A	5119.154	5.461	4.533	1.00	0.00	H
	ATOM48	2HB	SER A	5117.433	5.839	4.455	1.00	0.00	H
	ATOM49	HG	SER A	5117.186	3.826	3.304	1.00	0.00	H
	ATOM50	N	SER A	6120.271	5.917	0.971	1.00	0.00	N

	ATOM51	CA	SER A	6121.355	5.322	0.198	1.00	0.00	C
	ATOM52	C	SER A	6122.687	5.469	0.929	1.00	0.00	C
	ATOM53	O	SER A	6123.365	6.489	0.805	1.00	0.00	O
	ATOM54	CB	SER A	6121.443	5.975	-1.182	1.00	0.00	C
5	ATOM55	OG	SER A	6120.178	5.990	-1.821	1.00	0.00	O
	ATOM56	H	SER A	6120.070	6.869	0.859	1.00	0.00	H
	ATOM57	HA	SER A	6121.140	4.271	0.077	1.00	0.00	H
	ATOM58	1HB	SER A	6121.790	6.992	-1.076	1.00	0.00	H
	ATOM59	2HB	SER A	6122.137	5.420	-1.796	1.00	0.00	H
10	ATOM60	HG	SER A	6119.653	6.716	-1.475	1.00	0.00	H
	ATOM61	N	GLY A	7123.055	4.444	1.688	1.00	0.00	N
	ATOM62	CA	GLY A	7124.304	4.477	2.428	1.00	0.00	C
	ATOM63	C	GLY A	7125.284	3.418	1.960	1.00	0.00	C
	ATOM64	O	GLY A	7126.040	2.867	2.760	1.00	0.00	O
15	ATOM65	H	GLY A	7122.474	3.656	1.750	1.00	0.00	H
	ATOM66	1HA	GLY A	7124.757	5.450	2.304	1.00	0.00	H
	ATOM67	2HA	GLY A	7124.095	4.321	3.475	1.00	0.00	H
	ATOM68	N	LEU A	8125.269	3.134	0.662	1.00	0.00	N
	ATOM69	CA	LEU A	8126.163	2.134	0.089	1.00	0.00	C
20	ATOM70	C	LEU A	8127.308	2.798	-0.668	1.00	0.00	C
	ATOM71	O	LEU A	8128.424	2.279	-0.705	1.00	0.00	O
	ATOM72	CB	LEU A	8125.389	1.205	-0.847	1.00	0.00	C
	ATOM73	CG	LEU A	8124.503	0.173	-0.148	1.00	0.00	C
	ATOM74	CD1	LEU A	8123.307	-0.182	-1.018	1.00	0.00	C
25	ATOM75	CD2	LEU A	8125.306	-1.075	0.192	1.00	0.00	C
	ATOM76	H	LEU A	8124.644	3.608	0.076	1.00	0.00	H
	ATOM77	HA	LEU A	8126.573	1.553	0.901	1.00	0.00	H
	ATOM78	1HB	LEU A	8124.763	1.811	-1.486	1.00	0.00	H
	ATOM79	2HB	LEU A	8126.099	0.676	-1.465	1.00	0.00	H

	ATOM80	HG	LEU	A	8124.130	0.594	0.775	1.00	0.00	H	
	ATOM81	1HD1	LEU	A	8122.467	-0.437	-0.390	1.00	0.00	H	
	ATOM82	2HD1	LEU	A	8123.557	-1.026	-1.646	1.00	0.00	H	
	ATOM83	3HD1	LEU	A	8123.050	0.664	-1.638	1.00	0.00	H	
5	ATOM84	1HD2	LEU	A	8124.669	-1.943	0.118	1.00	0.00	H	
	ATOM85	2HD2	LEU	A	8125.689	-0.992	1.198	1.00	0.00	H	
	ATOM86	3HD2	LEU	A	8126.129	-1.171	-0.500	1.00	0.00	H	
	ATOM87	N	ALA	A	9127.025	3.949	-1.271	1.00	0.00	N	
	ATOM88	CA	ALA	A	9128.032	4.684	-2.027	1.00	0.00	C	
10	ATOM89	C	ALA	A	9128.353	6.018	-1.362	1.00	0.00	C	
	ATOM90	O	ALA	A	9127.467	6.685	-0.828	1.00	0.00	O	
	ATOM91	CB	ALA	A	9127.559	4.904	-3.456	1.00	0.00	C	
	ATOM92	H	ALA	A	9126.117	4.312	-1.204	1.00	0.00	H	
	ATOM93	HA	ALA	A	9128.930	4.083	-2.058	1.00	0.00	H	
15	ATOM94	1HB	ALA	A	9126.948	4.070	-3.766	1.00	0.00	H	
	ATOM95	2HB	ALA	A	9128.415	4.986	-4.110	1.00	0.00	H	
	ATOM96	3HB	ALA	A	9126.979	5.813	-3.507	1.00	0.00	H	
	ATOM97	N	MET	A	10129.625	6.399	-1.399	1.00	0.00	N	
	ATOM98	CA	MET	A	10130.064	7.654	-0.799	1.00	0.00	C	
20	ATOM99	C	MET	A	10131.140	8.320	-1.656	1.00	0.00	C	
	ATOM	100	O	MET	A	10132.329	8.052	-1.490	1.00	0.00	O
	ATOM	101	CB	MET	A	10130.601	7.410	0.612	1.00	0.00	C
	ATOM	102	CG	MET	A	10129.515	7.117	1.634	1.00	0.00	C
	ATOM	103	SD	MET	A	10130.052	5.956	2.905	1.00	0.00	S
25	ATOM	104	CE	MET	A	10128.479	5.283	3.435	1.00	0.00	C
	ATOM	105	H	MET	A	10130.285	5.823	-1.839	1.00	0.00	H
	ATOM	106	HA	MET	A	10129.209	8.311	-0.740	1.00	0.00	H
	ATOM	107	1HB	MET	A	10131.277	6.568	0.586	1.00	0.00	H
	ATOM	108	2HB	MET	A	10131.144	8.286	0.935	1.00	0.00	H

	ATOM	109	1HG	MET A	10129.229	8.043	2.110	1.00	0.00	H
	ATOM	110	2HG	MET A	10128.661	6.699	1.121	1.00	0.00	H
	ATOM	111	1HE	MET A	10127.696	6.001	3.239	1.00	0.00	H
	ATOM	112	2HE	MET A	10128.516	5.071	4.493	1.00	0.00	H
5	ATOM	113	3HE	MET A	10128.277	4.371	2.892	1.00	0.00	H
	ATOM	114	N	PRO A	11130.733	9.201	-2.588	1.00	0.00	N
	ATOM	115	CA	PRO A	11131.672	9.903	-3.467	1.00	0.00	C
	ATOM	116	C	PRO A	11132.708	10.710	-2.687	1.00	0.00	C
	ATOM	117	O	PRO A	11133.901	10.639	-2.976	1.00	0.00	O
10	ATOM	118	CB	PRO A	11130.781	10.836	-4.295	1.00	0.00	C
	ATOM	119	CG	PRO A	11129.406	10.270	-4.185	1.00	0.00	C
	ATOM	120	CD	PRO A	11129.335	9.581	-2.851	1.00	0.00	C
	ATOM	121	HA	PRO A	11132.181	9.214	-4.125	1.00	0.00	H
	ATOM	122	1HB	PRO A	11130.831	11.836	-3.892	1.00	0.00	H
15	ATOM	123	2HB	PRO A	11131.120	10.841	-5.321	1.00	0.00	H
	ATOM	124	1HG	PRO A	11128.680	11.066	-4.229	1.00	0.00	H
	ATOM	125	2HG	PRO A	11129.236	9.561	-4.981	1.00	0.00	H
	ATOM	126	1HD	PRO A	11128.971	10.260	-2.095	1.00	0.00	H
	ATOM	127	2HD	PRO A	11128.704	8.707	-2.911	1.00	0.00	H
20	ATOM	128	N	PRO A	12132.269	11.487	-1.678	1.00	0.00	N
	ATOM	129	CA	PRO A	12133.179	12.297	-0.861	1.00	0.00	C
	ATOM	130	C	PRO A	12134.284	11.455	-0.232	1.00	0.00	C
	ATOM	131	O	PRO A	12135.340	11.970	0.133	1.00	0.00	O
	ATOM	132	CB	PRO A	12132.272	12.882	0.225	1.00	0.00	C
25	ATOM	133	CG	PRO A	12130.903	12.847	-0.360	1.00	0.00	C
	ATOM	134	CD	PRO A	12130.866	11.636	-1.249	1.00	0.00	C
	ATOM	135	HA	PRO A	12133.622	13.096	-1.437	1.00	0.00	H
	ATOM	136	1HB	PRO A	12132.336	12.276	1.117	1.00	0.00	H
	ATOM	137	2HB	PRO A	12132.579	13.893	0.447	1.00	0.00	H



	ATOM	138	1HG	PRO A	12130.170	12.758	0.426	1.00	0.00	H
	ATOM	139	2HG	PRO A	12130.728	13.741	-0.940	1.00	0.00	H
	ATOM	140	1HD	PRO A	12130.539	10.770	-0.691	1.00	0.00	H
	ATOM	141	2HD	PRO A	12130.219	11.809	-2.094	1.00	0.00	H
5	ATOM	142	N	GLY A	13134.030	10.155	-0.108	1.00	0.00	N
	ATOM	143	CA	GLY A	13135.012	9.261	0.477	1.00	0.00	C
	ATOM	144	C	GLY A	13135.208	7.999	-0.339	1.00	0.00	C
	ATOM	145	O	GLY A	13135.145	6.891	0.193	1.00	0.00	O
	ATOM	146	H	GLY A	13133.170	9.800	-0.417	1.00	0.00	H
10	ATOM	147	1HA	GLY A	13135.957	9.779	0.552	1.00	0.00	H
	ATOM	148	2HA	GLY A	13134.686	8.986	1.470	1.00	0.00	H
	ATOM	149	N	ASN A	14135.447	8.169	-1.638	1.00	0.00	N
	ATOM	150	CA	ASN A	14135.654	7.038	-2.536	1.00	0.00	C
	ATOM	151	C	ASN A	14134.405	6.163	-2.612	1.00	0.00	C
15	ATOM	152	O	ASN A	14133.628	6.256	-3.562	1.00	0.00	O
	ATOM	153	CB	ASN A	14136.854	6.205	-2.078	1.00	0.00	C
	ATOM	154	CG	ASN A	14138.169	6.936	-2.265	1.00	0.00	C
	ATOM	155	OD1	ASN A	14138.694	7.023	-3.375	1.00	0.00	O
	ATOM	156	ND2	ASN A	14138.711	7.466	-1.173	1.00	0.00	N
20	ATOM	157	H	ASN A	14135.485	9.078	-2.000	1.00	0.00	H
	ATOM	158	HA	ASN A	14135.858	7.433	-3.520	1.00	0.00	H
	ATOM	159	1HB	ASN A	14136.742	5.965	-1.032	1.00	0.00	H
	ATOM	160	2HB	ASN A	14136.888	5.290	-2.652	1.00	0.00	H
	ATOM	161	1HD2	ASN A	14138.237	7.357	-0.322	1.00	0.00	H
25	ATOM	162	2HD2	ASN A	14139.561	7.945	-1.264	1.00	0.00	H
	ATOM	163	N	SER A	15134.219	5.312	-1.607	1.00	0.00	N
	ATOM	164	CA	SER A	15133.065	4.422	-1.564	1.00	0.00	C
	ATOM	165	C	SER A	15132.542	4.276	-0.139	1.00	0.00	C
	ATOM	166	O	SER A	15131.340	4.379	0.107	1.00	0.00	O

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	ATOM	167	CB	SER A	15133.432	3.048	-2.127	1.00	0.00	C
	ATOM	168	OG	SER A	15132.293	2.391	-2.653	1.00	0.00	O
	ATOM	169	H	SER A	15134.872	5.282	-0.878	1.00	0.00	H
	ATOM	170	HA	SER A	15132.289	4.856	-2.176	1.00	0.00	H
5	ATOM	171	1HB	SER A	15134.159	3.167	-2.917	1.00	0.00	H
	ATOM	172	2HB	SER A	15133.853	2.439	-1.340	1.00	0.00	H
	ATOM	173	HG	SER A	15131.783	3.007	-3.183	1.00	0.00	H
	ATOM	174	N	HIS A	16133.453	4.036	0.799	1.00	0.00	N
	ATOM	175	CA	HIS A	16133.084	3.876	2.201	1.00	0.00	C
10	ATOM	176	C	HIS A	16133.923	4.787	3.092	1.00	0.00	C
	ATOM	177	O	HIS A	16133.400	5.454	3.984	1.00	0.00	O
	ATOM	178	CB	HIS A	16133.259	2.420	2.633	1.00	0.00	C
	ATOM	179	CG	HIS A	16132.025	1.591	2.457	1.00	0.00	C
	ATOM	180	ND1	HIS A	16131.474	0.835	3.472	1.00	0.00	N
15	ATOM	181	CD2	HIS A	16131.232	1.401	1.377	1.00	0.00	C
	ATOM	182	CE1	HIS A	16130.397	0.216	3.023	1.00	0.00	C
	ATOM	183	NE2	HIS A	16130.227	0.543	1.755	1.00	0.00	N
	ATOM	184	H	HIS A	16134.396	3.965	0.542	1.00	0.00	H
	ATOM	185	HA	HIS A	16132.045	4.150	2.304	1.00	0.00	H
20	ATOM	186	1HB	HIS A	16134.047	1.970	2.047	1.00	0.00	H
	ATOM	187	2HB	HIS A	16133.534	2.391	3.678	1.00	0.00	H
	ATOM	188	HD1	HIS A	16131.822	0.763	4.385	1.00	0.00	H
	ATOM	189	HD2	HIS A	16131.363	1.841	0.399	1.00	0.00	H
	ATOM	190	HE1	HIS A	16129.763	-0.444	3.596	1.00	0.00	H
25	ATOM	191	HE2	HIS A	16129.457	0.291	1.205	1.00	0.00	H
	ATOM	192	N	GLY A	17135.229	4.809	2.843	1.00	0.00	N
	ATOM	193	CA	GLY A	17136.120	5.641	3.630	1.00	0.00	C
	ATOM	194	C	GLY A	17137.532	5.092	3.679	1.00	0.00	C
	ATOM	195	O	GLY A	17138.032	4.742	4.748	1.00	0.00	O

	ATOM	196	H	GLY A	17135.589	4.257	2.119	1.00	0.00	H
	ATOM	197	1HA	GLY A	17136.145	6.631	3.200	1.00	0.00	H
	ATOM	198	2HA	GLY A	17135.736	5.707	4.637	1.00	0.00	H
	ATOM	199	N	LEU A	18138.175	5.015	2.519	1.00	0.00	N
5	ATOM	200	CA	LEU A	18139.539	4.503	2.434	1.00	0.00	C
	ATOM	201	C	LEU A	18140.547	5.574	2.836	1.00	0.00	C
	ATOM	202	O	LEU A	18140.918	6.426	2.029	1.00	0.00	O
	ATOM	203	CB	LEU A	18139.833	4.014	1.015	1.00	0.00	C
	ATOM	204	CG	LEU A	18138.730	3.165	0.380	1.00	0.00	C
10	ATOM	205	CD1	LEU A	18138.853	3.178	-1.136	1.00	0.00	C
	ATOM	206	CD2	LEU A	18138.786	1.740	0.909	1.00	0.00	C
	ATOM	207	H	LEU A	18137.723	5.308	1.701	1.00	0.00	H
	ATOM	208	HA	LEU A	18139.623	3.672	3.116	1.00	0.00	H
	ATOM	209	1HB	LEU A	18140.002	4.877	0.387	1.00	0.00	H
15	ATOM	210	2HB	LEU A	18140.739	3.426	1.040	1.00	0.00	H
	ATOM	211	HG	LEU A	18137.769	3.583	0.641	1.00	0.00	H
	ATOM	212	1HD1	LEU A	18139.875	2.973	-1.416	1.00	0.00	H
	ATOM	213	2HD1	LEU A	18138.564	4.149	-1.512	1.00	0.00	H
	ATOM	214	3HD1	LEU A	18138.205	2.423	-1.556	1.00	0.00	H
20	ATOM	215	1HD2	LEU A	18137.874	1.224	0.648	1.00	0.00	H
	ATOM	216	2HD2	LEU A	18138.895	1.758	1.983	1.00	0.00	H
	ATOM	217	3HD2	LEU A	18139.629	1.226	0.470	1.00	0.00	H
	ATOM	218	N	GLU A	19140.988	5.523	4.088	1.00	0.00	N
	ATOM	219	CA	GLU A	19141.956	6.488	4.598	1.00	0.00	C
25	ATOM	220	C	GLU A	19143.006	5.799	5.464	1.00	0.00	C
	ATOM	221	O	GLU A	19142.962	4.585	5.662	1.00	0.00	O
	ATOM	222	CB	GLU A	19141.246	7.576	5.405	1.00	0.00	C
	ATOM	223	CG	GLU A	19140.290	7.030	6.453	1.00	0.00	C
	ATOM	224	CD	GLU A	19140.046	8.008	7.586	1.00	0.00	C

	ATOM	225	OE1	GLU	A	19139.639	7.561	8.679	1.00	0.00	O
	ATOM	226	OE2	GLU	A	19140.261	9.220	7.380	1.00	0.00	O
	ATOM	227	H	GLU	A	19140.656	4.819	4.684	1.00	0.00	H
	ATOM	228	HA	GLU	A	19142.447	6.944	3.751	1.00	0.00	H
5	ATOM	229	1HB	GLU	A	19141.989	8.180	5.907	1.00	0.00	H
	ATOM	230	2HB	GLU	A	19140.683	8.202	4.728	1.00	0.00	H
	ATOM	231	1HG	GLU	A	19139.345	6.807	5.981	1.00	0.00	H
	ATOM	232	2HG	GLU	A	19140.708	6.122	6.864	1.00	0.00	H
	ATOM	233	N	VAL	A	20143.949	6.582	5.978	1.00	0.00	N
10	ATOM	234	CA	VAL	A	20145.009	6.047	6.822	1.00	0.00	C
	ATOM	235	C	VAL	A	20144.435	5.407	8.082	1.00	0.00	C
	ATOM	236	O	VAL	A	20143.542	5.963	8.722	1.00	0.00	O
	ATOM	237	CB	VAL	A	20146.013	7.144	7.229	1.00	0.00	C
	ATOM	238	CG1	VAL	A	20147.191	6.540	7.979	1.00	0.00	C
15	ATOM	239	CG2	VAL	A	20146.489	7.914	6.004	1.00	0.00	C
	ATOM	240	H	VAL	A	20143.931	7.543	5.783	1.00	0.00	H
	ATOM	241	HA	VAL	A	20145.539	5.294	6.257	1.00	0.00	H
	ATOM	242	HB	VAL	A	20145.512	7.835	7.889	1.00	0.00	H
	ATOM	243	1HG1	VAL	A	20147.488	5.618	7.501	1.00	0.00	H
20	ATOM	244	2HG1	VAL	A	20146.903	6.341	9.000	1.00	0.00	H
	ATOM	245	3HG1	VAL	A	20148.019	7.235	7.967	1.00	0.00	H
	ATOM	246	1HG2	VAL	A	20147.486	7.592	5.743	1.00	0.00	H
	ATOM	247	2HG2	VAL	A	20146.498	8.971	6.226	1.00	0.00	H
	ATOM	248	3HG2	VAL	A	20145.821	7.726	5.177	1.00	0.00	H
25	ATOM	249	N	GLY	A	21144.954	4.234	8.432	1.00	0.00	N
	ATOM	250	CA	GLY	A	21144.482	3.538	9.615	1.00	0.00	C
	ATOM	251	C	GLY	A	21143.450	2.476	9.287	1.00	0.00	C
	ATOM	252	O	GLY	A	21143.375	1.447	9.959	1.00	0.00	O
	ATOM	253	H	GLY	A	21145.665	3.840	7.885	1.00	0.00	H

	ATOM	254	1HA	GLY A	21145.323	3.069	10.104	1.00	0.00	H
	ATOM	255	2HA	GLY A	21144.039	4.256	10.290	1.00	0.00	H
	ATOM	256	N	SER A	22142.655	2.725	8.253	1.00	0.00	N
	ATOM	257	CA	SER A	22141.623	1.781	7.837	1.00	0.00	C
5	ATOM	258	C	SER A	22142.196	0.728	6.895	1.00	0.00	C
	ATOM	259	O	SER A	22143.138	0.996	6.147	1.00	0.00	O
	ATOM	260	CB	SER A	22140.471	2.521	7.154	1.00	0.00	C
	ATOM	261	OG	SER A	22140.308	3.821	7.694	1.00	0.00	O
	ATOM	262	H	SER A	22142.764	3.562	7.756	1.00	0.00	H
10	ATOM	263	HA	SER A	22141.249	1.289	8.722	1.00	0.00	H
	ATOM	264	1HB	SER A	22140.678	2.607	6.098	1.00	0.00	H
	ATOM	265	2HB	SER A	22139.556	1.967	7.298	1.00	0.00	H
	ATOM	266	HG	SER A	22140.349	3.777	8.653	1.00	0.00	H
	ATOM	267	N	LEU A	23141.624	-0.470	6.936	1.00	0.00	N
15	ATOM	268	CA	LEU A	23142.078	-1.564	6.086	1.00	0.00	C
	ATOM	269	C	LEU A	23141.426	-1.492	4.709	1.00	0.00	C
	ATOM	270	O	LEU A	23140.229	-1.231	4.590	1.00	0.00	O
	ATOM	271	CB	LEU A	23141.763	-2.911	6.740	1.00	0.00	C
	ATOM	272	CG	LEU A	23142.577	-3.225	7.997	1.00	0.00	C
20	ATOM	273	CD1	LEU A	23141.779	-4.108	8.943	1.00	0.00	C
	ATOM	274	CD2	LEU A	23143.893	-3.892	7.624	1.00	0.00	C
	ATOM	275	H	LEU A	23140.877	-0.622	7.552	1.00	0.00	H
	ATOM	276	HA	LEU A	23143.148	-1.472	5.970	1.00	0.00	H
	ATOM	277	1HB	LEU A	23140.716	-2.923	7.003	1.00	0.00	H
25	ATOM	278	2HB	LEU A	23141.945	-3.691	6.017	1.00	0.00	H
	ATOM	279	HG	LEU A	23142.803	-2.303	8.512	1.00	0.00	H
	ATOM	280	1HD1	LEU A	23141.062	-4.686	8.378	1.00	0.00	H
	ATOM	281	2HD1	LEU A	23141.259	-3.490	9.659	1.00	0.00	H
	ATOM	282	3HD1	LEU A	23142.449	-4.777	9.464	1.00	0.00	H

	ATOM	283	1HD2	LEU	A	23143.706	-4.908	7.309	1.00	0.00	H
	ATOM	284	2HD2	LEU	A	23144.550	-3.897	8.481	1.00	0.00	H
	ATOM	285	3HD2	LEU	A	23144.359	-3.345	6.818	1.00	0.00	H
	ATOM	286	N	ALA	A	24142.222	-1.725	3.670	1.00	0.00	N
5	ATOM	287	CA	ALA	A	24141.724	-1.686	2.301	1.00	0.00	C
	ATOM	288	C	ALA	A	24142.324	-2.812	1.466	1.00	0.00	C
	ATOM	289	O	ALA	A	24143.420	-3.294	1.751	1.00	0.00	O
	ATOM	290	CB	ALA	A	24142.028	-0.337	1.667	1.00	0.00	C
	ATOM	291	H	ALA	A	24143.168	-1.928	3.829	1.00	0.00	H
10	ATOM	292	HA	ALA	A	24140.651	-1.808	2.334	1.00	0.00	H
	ATOM	293	1HB	ALA	A	24141.196	0.333	1.830	1.00	0.00	H
	ATOM	294	2HB	ALA	A	24142.184	-0.464	0.606	1.00	0.00	H
	ATOM	295	3HB	ALA	A	24142.919	0.079	2.115	1.00	0.00	H
	ATOM	296	N	GLU	A	25141.598	-3.227	0.433	1.00	0.00	N
15	ATOM	297	CA	GLU	A	25142.059	-4.299	-0.445	1.00	0.00	C
	ATOM	298	C	GLU	A	25142.225	-3.797	-1.876	1.00	0.00	C
	ATOM	299	O	GLU	A	25141.447	-2.968	-2.348	1.00	0.00	O
	ATOM	300	CB	GLU	A	25141.075	-5.470	-0.414	1.00	0.00	C
	ATOM	301	CG	GLU	A	25141.514	-6.654	-1.260	1.00	0.00	C
20	ATOM	302	CD	GLU	A	25140.767	-6.737	-2.578	1.00	0.00	C
	ATOM	303	OE1	GLU	A	25140.490	-5.674	-3.170	1.00	0.00	O
	ATOM	304	OE2	GLU	A	25140.461	-7.865	-3.017	1.00	0.00	O
	ATOM	305	H	GLU	A	25140.732	-2.805	0.256	1.00	0.00	H
	ATOM	306	HA	GLU	A	25143.017	-4.636	-0.081	1.00	0.00	H
25	ATOM	307	1HB	GLU	A	25140.965	-5.805	0.607	1.00	0.00	H
	ATOM	308	2HB	GLU	A	25140.117	-5.130	-0.778	1.00	0.00	H
	ATOM	309	1HG	GLU	A	25142.569	-6.561	-1.469	1.00	0.00	H
	ATOM	310	2HG	GLU	A	25141.335	-7.563	-0.704	1.00	0.00	H
	ATOM	311	N	VAL	A	26143.244	-4.305	-2.560	1.00	0.00	N

	ATOM	312	CA	VAL A	26143.513	-3.909	-3.937	1.00	0.00	C
	ATOM	313	C	VAL A	26142.949	-4.926	-4.922	1.00	0.00	C
	ATOM	314	O	VAL A	26142.719	-6.084	-4.571	1.00	0.00	O
	ATOM	315	CB	VAL A	26145.024	-3.751	-4.191	1.00	0.00	C
5	ATOM	316	CG1	VAL A	26145.275	-3.136	-5.559	1.00	0.00	C
	ATOM	317	CG2	VAL A	26145.665	-2.911	-3.097	1.00	0.00	C
	ATOM	318	H	VAL A	26143.830	-4.962	-2.129	1.00	0.00	H
	ATOM	319	HA	VAL A	26143.039	-2.953	-4.109	1.00	0.00	H
	ATOM	320	HB	VAL A	26145.477	-4.731	-4.173	1.00	0.00	H
10	ATOM	321	1HG1	VAL A	26146.222	-2.616	-5.553	1.00	0.00	H
	ATOM	322	2HG1	VAL A	26144.484	-2.439	-5.792	1.00	0.00	H
	ATOM	323	3HG1	VAL A	26145.299	-3.917	-6.305	1.00	0.00	H
	ATOM	324	1HG2	VAL A	26145.381	-1.876	-3.223	1.00	0.00	H
	ATOM	325	2HG2	VAL A	26146.740	-2.998	-3.157	1.00	0.00	H
15	ATOM	326	3HG2	VAL A	26145.330	-3.260	-2.131	1.00	0.00	H
	ATOM	327	N	LYS A	27142.727	-4.487	-6.157	1.00	0.00	N
	ATOM	328	CA	LYS A	27142.188	-5.360	-7.194	1.00	0.00	C
	ATOM	329	C	LYS A	27143.310	-5.966	-8.031	1.00	0.00	C
	ATOM	330	O	LYS A	27143.259	-5.951	-9.262	1.00	0.00	O
20	ATOM	331	CB	LYS A	27141.223	-4.583	-8.092	1.00	0.00	C
	ATOM	332	CG	LYS A	27139.924	-4.202	-7.403	1.00	0.00	C
	ATOM	333	CD	LYS A	27139.048	-5.419	-7.154	1.00	0.00	C
	ATOM	334	CE	LYS A	27137.646	-5.018	-6.724	1.00	0.00	C
	ATOM	335	NZ	LYS A	27137.102	-5.932	-5.682	1.00	0.00	N
25	ATOM	336	H	LYS A	27142.930	-3.554	-6.376	1.00	0.00	H
	ATOM	337	HA	LYS A	27141.648	-6.158	-6.706	1.00	0.00	H
	ATOM	338	1HB	LYS A	27141.710	-3.677	-8.424	1.00	0.00	H
	ATOM	339	2HB	LYS A	27140.985	-5.190	-8.954	1.00	0.00	H
	ATOM	340	1HG	LYS A	27140.152	-3.735	-6.457	1.00	0.00	H

	ATOM	341	2HG	LYS	A	27139.387	-3.504	-8.030	1.00	0.00	H
	ATOM	342	1HD	LYS	A	27138.983	-5.995	-8.065	1.00	0.00	H
	ATOM	343	2HD	LYS	A	27139.496	-6.019	-6.376	1.00	0.00	H
	ATOM	344	1HE	LYS	A	27137.678	-4.014	-6.327	1.00	0.00	H
5	ATOM	345	2HE	LYS	A	27136.998	-5.043	-7.587	1.00	0.00	H
	ATOM	346	1HZ	LYS	A	27136.733	-6.799	-6.124	1.00	0.00	H
	ATOM	347	2HZ	LYS	A	27136.331	-5.466	-5.163	1.00	0.00	H
	ATOM	348	3HZ	LYS	A	27137.851	-6.192	-5.007	1.00	0.00	H
	ATOM	349	N	GLU	A	28144.323	-6.501	-7.357	1.00	0.00	N
10	ATOM	350	CA	GLU	A	28145.457	-7.112	-8.038	1.00	0.00	C
	ATOM	351	C	GLU	A	28145.269	-8.622	-8.160	1.00	0.00	C
	ATOM	352	O	GLU	A	28144.303	-9.181	-7.640	1.00	0.00	O
	ATOM	353	CB	GLU	A	28146.756	-6.806	-7.288	1.00	0.00	C
	ATOM	354	CG	GLU	A	28147.863	-6.272	-8.182	1.00	0.00	C
15	ATOM	355	CD	GLU	A	28149.224	-6.837	-7.824	1.00	0.00	C
	ATOM	356	OE1	GLU	A	28149.635	-7.835	-8.452	1.00	0.00	O
	ATOM	357	OE2	GLU	A	28149.878	-6.281	-6.917	1.00	0.00	O
	ATOM	358	H	GLU	A	28144.307	-6.483	-6.377	1.00	0.00	H
	ATOM	359	HA	GLU	A	28145.516	-6.688	-9.029	1.00	0.00	H
20	ATOM	360	1HB	GLU	A	28146.552	-6.068	-6.526	1.00	0.00	H
	ATOM	361	2HB	GLU	A	28147.110	-7.711	-6.814	1.00	0.00	H
	ATOM	362	1HG	GLU	A	28147.640	-6.533	-9.205	1.00	0.00	H
	ATOM	363	2HG	GLU	A	28147.899	-5.197	-8.085	1.00	0.00	H
	ATOM	364	N	ASN	A	29146.199	-9.275	-8.850	1.00	0.00	N
25	ATOM	365	CA	ASN	A	29146.136	-10.719	-9.040	1.00	0.00	C
	ATOM	366	C	ASN	A	29146.156	-11.446	-7.697	1.00	0.00	C
	ATOM	367	O	ASN	A	29145.239	-12.204	-7.381	1.00	0.00	O
	ATOM	368	CB	ASN	A	29147.306	-11.191	-9.907	1.00	0.00	C
	ATOM	369	CG	ASN	A	29146.930	-11.306	-11.371	1.00	0.00	C



	ATOM	370	OD1	ASN	A	29146.786	-12.407	-11.903	1.00	0.00	O
	ATOM	371	ND2	ASN	A	29146.767	-10.165	-12.032	1.00	0.00	N
	ATOM	372	H	ASN	A	29146.944	-8.773	-9.240	1.00	0.00	H
	ATOM	373	HA	ASN	A	29145.211	-10.947	-9.546	1.00	0.00	H
5	ATOM	374	1HB	ASN	A	29148.119	-10.486	-9.819	1.00	0.00	H
	ATOM	375	2HB	ASN	A	29147.635	-12.160	-9.561	1.00	0.00	H
	ATOM	376	1HD2	ASN	A	29146.898	-9.325	-11.543	1.00	0.00	H
	ATOM	377	2HD2	ASN	A	29146.524	-10.210	-12.979	1.00	0.00	H
	ATOM	378	N	PRO	A	30147.206	-11.226	-6.887	1.00	0.00	N
10	ATOM	379	CA	PRO	A	30147.337	-11.863	-5.575	1.00	0.00	C
	ATOM	380	C	PRO	A	30146.420	-11.233	-4.529	1.00	0.00	C
	ATOM	381	O	PRO	A	30146.641	-10.098	-4.105	1.00	0.00	O
	ATOM	382	CB	PRO	A	30148.802	-11.621	-5.217	1.00	0.00	C
	ATOM	383	CG	PRO	A	30149.156	-10.354	-5.917	1.00	0.00	C
15	ATOM	384	CD	PRO	A	30148.346	-10.336	-7.187	1.00	0.00	C
	ATOM	385	HA	PRO	A	30147.149	-12.925	-5.631	1.00	0.00	H
	ATOM	386	1HB	PRO	A	30148.902	-11.522	-4.145	1.00	0.00	H
	ATOM	387	2HB	PRO	A	30149.404	-12.446	-5.567	1.00	0.00	H
	ATOM	388	1HG	PRO	A	30148.897	-9.508	-5.296	1.00	0.00	H
20	ATOM	389	2HG	PRO	A	30150.211	-10.344	-6.145	1.00	0.00	H
	ATOM	390	1HD	PRO	A	30148.006	-9.335	-7.401	1.00	0.00	H
	ATOM	391	2HD	PRO	A	30148.927	-10.721	-8.009	1.00	0.00	H
	ATOM	392	N	PRO	A	31145.373	-11.959	-4.095	1.00	0.00	N
	ATOM	393	CA	PRO	A	31144.428	-11.455	-3.094	1.00	0.00	C
25	ATOM	394	C	PRO	A	31145.065	-11.310	-1.717	1.00	0.00	C
	ATOM	395	O	PRO	A	31144.943	-12.193	-0.869	1.00	0.00	O
	ATOM	396	CB	PRO	A	31143.331	-12.523	-3.065	1.00	0.00	C
	ATOM	397	CG	PRO	A	31143.999	-13.765	-3.541	1.00	0.00	C
	ATOM	398	CD	PRO	A	31145.028	-13.322	-4.543	1.00	0.00	C

	ATOM	399	HA	PRO	A	31144.003	-10.507	-3.393	1.00	0.00	H
	ATOM	400	1HB	PRO	A	31142.960	-12.634	-2.057	1.00	0.00	H
	ATOM	401	2HB	PRO	A	31142.524	-12.233	-3.721	1.00	0.00	H
	ATOM	402	1HG	PRO	A	31144.474	-14.268	-2.712	1.00	0.00	H
5	ATOM	403	2HG	PRO	A	31143.276	-14.415	-4.011	1.00	0.00	H
	ATOM	404	1HD	PRO	A	31145.892	-13.969	-4.508	1.00	0.00	H
	ATOM	405	2HD	PRO	A	31144.607	-13.306	-5.536	1.00	0.00	H
	ATOM	406	N	PHE	A	32145.746	-10.189	-1.501	1.00	0.00	N
	ATOM	407	CA	PHE	A	32146.404	-9.928	-0.226	1.00	0.00	C
10	ATOM	408	C	PHE	A	32145.573	-8.975	0.628	1.00	0.00	C
	ATOM	409	O	PHE	A	32144.568	-8.432	0.172	1.00	0.00	O
	ATOM	410	CB	PHE	A	32147.798	-9.342	-0.457	1.00	0.00	C
	ATOM	411	CG	PHE	A	32147.825	-8.245	-1.484	1.00	0.00	C
	ATOM	412	CD1	PHE	A	32147.160	-7.051	-1.259	1.00	0.00	C
15	ATOM	413	CD2	PHE	A	32148.516	-8.409	-2.674	1.00	0.00	C
	ATOM	414	CE1	PHE	A	32147.184	-6.040	-2.201	1.00	0.00	C
	ATOM	415	CE2	PHE	A	32148.543	-7.402	-3.620	1.00	0.00	C
	ATOM	416	CZ	PHE	A	32147.875	-6.216	-3.383	1.00	0.00	C
	ATOM	417	H	PHE	A	32145.807	-9.522	-2.217	1.00	0.00	H
20	ATOM	418	HA	PHE	A	32146.501	-10.868	0.295	1.00	0.00	H
	ATOM	419	1HB	PHE	A	32148.168	-8.935	0.471	1.00	0.00	H
	ATOM	420	2HB	PHE	A	32148.460	-10.127	-0.791	1.00	0.00	H
	ATOM	421	HD1	PHE	A	32146.618	-6.912	-0.335	1.00	0.00	H
	ATOM	422	HD2	PHE	A	32149.038	-9.336	-2.860	1.00	0.00	H
25	ATOM	423	HE1	PHE	A	32146.660	-5.114	-2.014	1.00	0.00	H
	ATOM	424	HE2	PHE	A	32149.085	-7.543	-4.543	1.00	0.00	H
	ATOM	425	HZ	PHE	A	32147.895	-5.428	-4.122	1.00	0.00	H
	ATOM	426	N	TYR	A	33146.003	-8.777	1.870	1.00	0.00	N
	ATOM	427	CA	TYR	A	33145.297	-7.889	2.789	1.00	0.00	C

	ATOM	428	C	TYR A	33146.273	-6.965	3.508	1.00	0.00	C
	ATOM	429	O	TYR A	33147.259	-7.417	4.092	1.00	0.00	O
	ATOM	430	CB	TYR A	33144.502	-8.706	3.809	1.00	0.00	C
	ATOM	431	CG	TYR A	33143.206	-9.261	3.263	1.00	0.00	C
5	ATOM	432	CD1	TYR A	33142.351	-8.466	2.509	1.00	0.00	C
	ATOM	433	CD2	TYR A	33142.838	-10.579	3.501	1.00	0.00	C
	ATOM	434	CE1	TYR A	33141.165	-8.970	2.008	1.00	0.00	C
	ATOM	435	CE2	TYR A	33141.655	-11.090	3.002	1.00	0.00	C
	ATOM	436	CZ	TYR A	33140.822	-10.282	2.257	1.00	0.00	C
10	ATOM	437	OH	TYR A	33139.643	-10.787	1.759	1.00	0.00	O
	ATOM	438	H	TYR A	33146.811	-9.238	2.178	1.00	0.00	H
	ATOM	439	HA	TYR A	33144.613	-7.289	2.208	1.00	0.00	H
	ATOM	440	1HB	TYR A	33145.104	-9.537	4.143	1.00	0.00	H
	ATOM	441	2HB	TYR A	33144.264	-8.077	4.655	1.00	0.00	H
15	ATOM	442	HD1	TYR A	33142.623	-7.439	2.316	1.00	0.00	H
	ATOM	443	HD2	TYR A	33143.492	-11.209	4.086	1.00	0.00	H
	ATOM	444	HE1	TYR A	33140.515	-8.336	1.424	1.00	0.00	H
	ATOM	445	HE2	TYR A	33141.386	-12.117	3.198	1.00	0.00	H
	ATOM	446	HH	TYR A	33139.504	-10.457	0.869	1.00	0.00	H
20	ATOM	447	N	GLY A	34145.993	-5.666	3.463	1.00	0.00	N
	ATOM	448	CA	GLY A	34146.856	-4.698	4.115	1.00	0.00	C
	ATOM	449	C	GLY A	34146.086	-3.512	4.663	1.00	0.00	C
	ATOM	450	O	GLY A	34144.877	-3.403	4.464	1.00	0.00	O
	ATOM	451	H	GLY A	34145.194	-5.363	2.983	1.00	0.00	H
25	ATOM	452	1HA	GLY A	34147.374	-5.184	4.928	1.00	0.00	H
	ATOM	453	2HA	GLY A	34147.583	-4.342	3.400	1.00	0.00	H
	ATOM	454	N	VAL A	35146.789	-2.622	5.357	1.00	0.00	N
	ATOM	455	CA	VAL A	35146.165	-1.439	5.937	1.00	0.00	C
	ATOM	456	C	VAL A	35146.791	-0.162	5.382	1.00	0.00	C

	ATOM	457	O	VAL A	35147.999	-0.097	5.159	1.00	0.00	O
	ATOM	458	CB	VAL A	35146.287	-1.437	7.474	1.00	0.00	C
	ATOM	459	CG1	VAL A	35147.746	-1.405	7.899	1.00	0.00	C
	ATOM	460	CG2	VAL A	35145.523	-0.263	8.071	1.00	0.00	C
5	ATOM	461	H	VAL A	35147.751	-2.766	5.482	1.00	0.00	H
	ATOM	462	HA	VAL A	35145.116	-1.455	5.679	1.00	0.00	H
	ATOM	463	HB	VAL A	35145.847	-2.350	7.849	1.00	0.00	H
	ATOM	464	1HG1	VAL A	35148.023	-0.395	8.165	1.00	0.00	H
	ATOM	465	2HG1	VAL A	35148.367	-1.745	7.084	1.00	0.00	H
10	ATOM	466	3HG1	VAL A	35147.888	-2.052	8.752	1.00	0.00	H
	ATOM	467	1HG2	VAL A	35144.502	-0.284	7.721	1.00	0.00	H
	ATOM	468	2HG2	VAL A	35145.989	0.662	7.765	1.00	0.00	H
	ATOM	469	3HG2	VAL A	35145.537	-0.335	9.148	1.00	0.00	H
	ATOM	470	N	ILE A	36145.958	0.852	5.164	1.00	0.00	N
15	ATOM	471	CA	ILE A	36146.430	2.126	4.637	1.00	0.00	C
	ATOM	472	C	ILE A	36147.393	2.798	5.611	1.00	0.00	C
	ATOM	473	O	ILE A	36147.154	2.821	6.819	1.00	0.00	O
	ATOM	474	CB	ILE A	36145.259	3.085	4.344	1.00	0.00	C
	ATOM	475	CG1	ILE A	36144.203	2.391	3.480	1.00	0.00	C
20	ATOM	476	CG2	ILE A	36145.765	4.346	3.658	1.00	0.00	C
	ATOM	477	CD1	ILE A	36143.021	3.272	3.144	1.00	0.00	C
	ATOM	478	H	ILE A	36145.006	0.739	5.363	1.00	0.00	H
	ATOM	479	HA	ILE A	36146.950	1.932	3.710	1.00	0.00	H
	ATOM	480	HB	ILE A	36144.813	3.371	5.284	1.00	0.00	H
25	ATOM	481	1HG1	ILE A	36144.657	2.077	2.552	1.00	0.00	H
	ATOM	482	2HG1	ILE A	36143.832	1.522	4.005	1.00	0.00	H
	ATOM	483	1HG2	ILE A	36144.985	5.093	3.655	1.00	0.00	H
	ATOM	484	2HG2	ILE A	36146.045	4.115	2.640	1.00	0.00	H
	ATOM	485	3HG2	ILE A	36146.625	4.726	4.190	1.00	0.00	H

	ATOM	486	1HD1	ILE	A	36143.302	4.309	3.253	1.00	0.00	H
	ATOM	487	2HD1	ILE	A	36142.203	3.047	3.812	1.00	0.00	H
	ATOM	488	3HD1	ILE	A	36142.713	3.089	2.125	1.00	0.00	H
	ATOM	489	N	ARG	A	37148.482	3.342	5.078	1.00	0.00	N
5	ATOM	490	CA	ARG	A	37149.482	4.013	5.901	1.00	0.00	C
	ATOM	491	C	ARG	A	37149.654	5.467	5.474	1.00	0.00	C
	ATOM	492	O	ARG	A	37149.380	6.387	6.245	1.00	0.00	O
	ATOM	493	CB	ARG	A	37150.821	3.279	5.811	1.00	0.00	C
	ATOM	494	CG	ARG	A	37150.720	1.790	6.099	1.00	0.00	C
10	ATOM	495	CD	ARG	A	37150.093	1.526	7.458	1.00	0.00	C
	ATOM	496	NE	ARG	A	37150.689	2.353	8.506	1.00	0.00	N
	ATOM	497	CZ	ARG	A	37150.129	2.558	9.696	1.00	0.00	C
	ATOM	498	NH1	ARG	A	37148.963	1.999	9.993	1.00	0.00	N
	ATOM	499	NH2	ARG	A	37150.737	3.323	10.591	1.00	0.00	N
15	ATOM	500	H	ARG	A	37148.617	3.291	4.109	1.00	0.00	H
	ATOM	501	HA	ARG	A	37149.138	3.991	6.924	1.00	0.00	H
	ATOM	502	1HB	ARG	A	37151.221	3.405	4.816	1.00	0.00	H
	ATOM	503	2HB	ARG	A	37151.507	3.716	6.522	1.00	0.00	H
	ATOM	504	1HG	ARG	A	37150.112	1.327	5.337	1.00	0.00	H
20	ATOM	505	2HG	ARG	A	37151.712	1.362	6.079	1.00	0.00	H
	ATOM	506	1HD	ARG	A	37149.036	1.741	7.401	1.00	0.00	H
	ATOM	507	2HD	ARG	A	37150.235	0.486	7.710	1.00	0.00	H
	ATOM	508	HE	ARG	A	37151.550	2.778	8.311	1.00	0.00	H
	ATOM	509	1HH1	ARG	A	37148.498	1.422	9.322	1.00	0.00	H
25	ATOM	510	2HH1	ARG	A	37148.547	2.158	10.889	1.00	0.00	H
	ATOM	511	1HH2	ARG	A	37151.617	3.746	10.372	1.00	0.00	H
	ATOM	512	2HH2	ARG	A	37150.318	3.477	11.485	1.00	0.00	H
	ATOM	513	N	TRP	A	38150.112	5.667	4.242	1.00	0.00	N
	ATOM	514	CA	TRP	A	38150.321	7.011	3.714	1.00	0.00	C

	ATOM	515	C	TRP	A	38149.551	7.213	2.412	1.00	0.00	C
	ATOM	516	O	TRP	A	38149.601	6.374	1.511	1.00	0.00	O
	ATOM	517	CB	TRP	A	38151.814	7.269	3.486	1.00	0.00	C
	ATOM	518	CG	TRP	A	38152.095	8.525	2.714	1.00	0.00	C
5	ATOM	519	CD1	TRP	A	38152.313	9.772	3.226	1.00	0.00	C
	ATOM	520	CD2	TRP	A	38152.181	8.655	1.290	1.00	0.00	C
	ATOM	521	NE1	TRP	A	38152.531	10.669	2.207	1.00	0.00	N
	ATOM	522	CE2	TRP	A	38152.455	10.006	1.009	1.00	0.00	C
	ATOM	523	CE3	TRP	A	38152.055	7.758	0.225	1.00	0.00	C
10	ATOM	524	CZ2	TRP	A	38152.603	10.481	-0.292	1.00	0.00	C
	ATOM	525	CZ3	TRP	A	38152.202	8.230	-1.066	1.00	0.00	C
	ATOM	526	CH2	TRP	A	38152.474	9.581	-1.315	1.00	0.00	C
	ATOM	527	H	TRP	A	38150.313	4.895	3.674	1.00	0.00	H
	ATOM	528	HA	TRP	A	38149.952	7.715	4.446	1.00	0.00	H
15	ATOM	529	1HB	TRP	A	38152.309	7.350	4.443	1.00	0.00	H
	ATOM	530	2HB	TRP	A	38152.236	6.439	2.938	1.00	0.00	H
	ATOM	531	HD1	TRP	A	38152.312	10.006	4.280	1.00	0.00	H
	ATOM	532	HE1	TRP	A	38152.711	11.625	2.319	1.00	0.00	H
	ATOM	533	HE3	TRP	A	38151.845	6.713	0.397	1.00	0.00	H
20	ATOM	534	HZ2	TRP	A	38152.809	11.521	-0.501	1.00	0.00	H
	ATOM	535	HZ3	TRP	A	38152.108	7.552	-1.900	1.00	0.00	H
	ATOM	536	HH2	TRP	A	38152.582	9.906	-2.340	1.00	0.00	H
	ATOM	537	N	ILE	A	39148.850	8.337	2.318	1.00	0.00	N
	ATOM	538	CA	ILE	A	39148.078	8.664	1.126	1.00	0.00	C
25	ATOM	539	C	ILE	A	39148.492	10.024	0.575	1.00	0.00	C
	ATOM	540	O	ILE	A	39148.159	11.062	1.146	1.00	0.00	O
	ATOM	541	CB	ILE	A	39146.566	8.679	1.420	1.00	0.00	C
	ATOM	542	CG1	ILE	A	39146.151	7.396	2.143	1.00	0.00	C
	ATOM	543	CG2	ILE	A	39145.777	8.844	0.129	1.00	0.00	C

	ATOM	544	CD1	ILE A	39144.691	7.371	2.539	1.00	0.00	C
	ATOM	545	H	ILE A	39148.859	8.968	3.067	1.00	0.00	H
	ATOM	546	HA	ILE A	39148.275	7.907	0.380	1.00	0.00	H
	ATOM	547	HB	ILE A	39146.353	9.526	2.053	1.00	0.00	H
5	ATOM	548	1HG1	ILE A	39146.334	6.551	1.496	1.00	0.00	H
	ATOM	549	2HG1	ILE A	39146.742	7.290	3.041	1.00	0.00	H
	ATOM	550	1HG2	ILE A	39144.765	8.499	0.279	1.00	0.00	H
	ATOM	551	2HG2	ILE A	39146.242	8.264	-0.654	1.00	0.00	H
	ATOM	552	3HG2	ILE A	39145.764	9.886	-0.154	1.00	0.00	H
10	ATOM	553	1HD1	ILE A	39144.182	8.211	2.090	1.00	0.00	H
	ATOM	554	2HD1	ILE A	39144.608	7.431	3.614	1.00	0.00	H
	ATOM	555	3HD1	ILE A	39144.241	6.451	2.194	1.00	0.00	H
	ATOM	556	N	GLY A	40149.226	10.012	-0.532	1.00	0.00	N
	ATOM	557	CA	GLY A	40149.678	11.253	-1.131	1.00	0.00	C
15	ATOM	558	C	GLY A	40150.185	11.072	-2.546	1.00	0.00	C
	ATOM	559	O	GLY A	40150.020	10.007	-3.142	1.00	0.00	O
	ATOM	560	H	GLY A	40149.467	9.155	-0.943	1.00	0.00	H
	ATOM	561	1HA	GLY A	40148.858	11.955	-1.141	1.00	0.00	H
	ATOM	562	2HA	GLY A	40150.474	11.659	-0.526	1.00	0.00	H
20	ATOM	563	N	GLN A	41150.799	12.118	-3.087	1.00	0.00	N
	ATOM	564	CA	GLN A	41151.332	12.082	-4.441	1.00	0.00	C
	ATOM	565	C	GLN A	41152.794	12.528	-4.460	1.00	0.00	C
	ATOM	566	O	GLN A	41153.100	13.680	-4.154	1.00	0.00	O
	ATOM	567	CB	GLN A	41150.498	12.981	-5.353	1.00	0.00	C
25	ATOM	568	CG	GLN A	41149.001	12.756	-5.223	1.00	0.00	C
	ATOM	569	CD	GLN A	41148.213	14.050	-5.269	1.00	0.00	C
	ATOM	570	OE1	GLN A	41148.200	14.818	-4.307	1.00	0.00	O
	ATOM	571	NE2	GLN A	41147.549	14.296	-6.391	1.00	0.00	N
	ATOM	572	H	GLN A	41150.896	12.939	-2.561	1.00	0.00	H

	ATOM	573	HA	GLN A	41151.268	11.065	-4.798	1.00	0.00	H
	ATOM	574	1HB	GLN A	41150.707	14.011	-5.111	1.00	0.00	H
	ATOM	575	2HB	GLN A	41150.782	12.797	-6.377	1.00	0.00	H
	ATOM	576	1HG	GLN A	41148.673	12.124	-6.034	1.00	0.00	H
5	ATOM	577	2HG	GLN A	41148.803	12.265	-4.282	1.00	0.00	H
	ATOM	578	1HE2	GLN A	41147.606	13.638	-7.115	1.00	0.00	H
	ATOM	579	2HE2	GLN A	41147.032	15.126	-6.451	1.00	0.00	H
	ATOM	580	N	PRO A	42153.720	11.620	-4.817	1.00	0.00	N
	ATOM	581	CA	PRO A	42155.153	11.933	-4.868	1.00	0.00	C
10	ATOM	582	C	PRO A	42155.457	13.100	-5.803	1.00	0.00	C
	ATOM	583	O	PRO A	42154.658	13.428	-6.681	1.00	0.00	O
	ATOM	584	CB	PRO A	42155.789	10.645	-5.399	1.00	0.00	C
	ATOM	585	CG	PRO A	42154.802	9.575	-5.083	1.00	0.00	C
	ATOM	586	CD	PRO A	42153.453	10.221	-5.197	1.00	0.00	C
15	ATOM	587	HA	PRO A	42155.544	12.152	-3.885	1.00	0.00	H
	ATOM	588	1HB	PRO A	42155.950	10.733	-6.465	1.00	0.00	H
	ATOM	589	2HB	PRO A	42156.731	10.472	-4.900	1.00	0.00	H
	ATOM	590	1HG	PRO A	42154.894	8.767	-5.794	1.00	0.00	H
	ATOM	591	2HG	PRO A	42154.961	9.213	-4.078	1.00	0.00	H
20	ATOM	592	1HD	PRO A	42153.088	10.159	-6.213	1.00	0.00	H
	ATOM	593	2HD	PRO A	42152.754	9.763	-4.513	1.00	0.00	H
	ATOM	594	N	PRO A	43156.621	13.746	-5.625	1.00	0.00	N
	ATOM	595	CA	PRO A	43157.028	14.881	-6.457	1.00	0.00	C
	ATOM	596	C	PRO A	43157.418	14.454	-7.866	1.00	0.00	C
25	ATOM	597	O	PRO A	43158.590	14.200	-8.146	1.00	0.00	O
	ATOM	598	CB	PRO A	43158.241	15.445	-5.719	1.00	0.00	C
	ATOM	599	CG	PRO A	43158.803	14.285	-4.973	1.00	0.00	C
	ATOM	600	CD	PRO A	43157.630	13.420	-4.600	1.00	0.00	C
	ATOM	601	HA	PRO A	43156.254	15.632	-6.510	1.00	0.00	H



	ATOM	602	1HB	PRO	A	43158.948	15.836	-6.435	1.00	0.00	H
	ATOM	603	2HB	PRO	A	43157.926	16.230	-5.048	1.00	0.00	H
	ATOM	604	1HG	PRO	A	43159.487	13.738	-5.607	1.00	0.00	H
	ATOM	605	2HG	PRO	A	43159.311	14.631	-4.085	1.00	0.00	H
5	ATOM	606	1HD	PRO	A	43157.903	12.376	-4.647	1.00	0.00	H
	ATOM	607	2HD	PRO	A	43157.273	13.673	-3.614	1.00	0.00	H
	ATOM	608	N	GLY	A	44156.432	14.379	-8.752	1.00	0.00	N
	ATOM	609	CA	GLY	A	44156.696	13.984	-10.122	1.00	0.00	C
	ATOM	610	C	GLY	A	44155.463	13.450	-10.820	1.00	0.00	C
10	ATOM	611	O	GLY	A	44155.131	13.883	-11.924	1.00	0.00	O
	ATOM	612	H	GLY	A	44155.517	14.595	-8.473	1.00	0.00	H
	ATOM	613	1HA	GLY	A	44157.062	14.839	-10.667	1.00	0.00	H
	ATOM	614	2HA	GLY	A	44157.457	13.216	-10.121	1.00	0.00	H
	ATOM	615	N	LEU	A	45154.782	12.507	-10.178	1.00	0.00	N
15	ATOM	616	CA	LEU	A	45153.577	11.916	-10.749	1.00	0.00	C
	ATOM	617	C	LEU	A	45152.383	12.121	-9.826	1.00	0.00	C
	ATOM	618	O	LEU	A	45152.330	11.557	-8.733	1.00	0.00	O
	ATOM	619	CB	LEU	A	45153.789	10.422	-11.006	1.00	0.00	C
	ATOM	620	CG	LEU	A	45154.407	9.647	-9.841	1.00	0.00	C
20	ATOM	621	CD1	LEU	A	45154.115	8.159	-9.974	1.00	0.00	C
	ATOM	622	CD2	LEU	A	45155.907	9.898	-9.771	1.00	0.00	C
	ATOM	623	H	LEU	A	45155.095	12.205	-9.298	1.00	0.00	H
	ATOM	624	HA	LEU	A	45153.380	12.409	-11.690	1.00	0.00	H
	ATOM	625	1HB	LEU	A	45152.830	9.980	-11.238	1.00	0.00	H
25	ATOM	626	2HB	LEU	A	45154.434	10.314	-11.865	1.00	0.00	H
	ATOM	627	HG	LEU	A	45153.966	9.991	-8.916	1.00	0.00	H
	ATOM	628	1HD1	LEU	A	45155.036	7.624	-10.154	1.00	0.00	H
	ATOM	629	2HD1	LEU	A	45153.438	7.995	-10.800	1.00	0.00	H
	ATOM	630	3HD1	LEU	A	45153.663	7.798	-9.062	1.00	0.00	H

	ATOM	631	1HD2	LEU	A	45156.426	8.959	-9.648	1.00	0.00	H
	ATOM	632	2HD2	LEU	A	45156.125	10.542	-8.932	1.00	0.00	H
	ATOM	633	3HD2	LEU	A	45156.236	10.374	-10.684	1.00	0.00	H
	ATOM	634	N	ASN	A	46151.424	12.927	-10.269	1.00	0.00	N
5	ATOM	635	CA	ASN	A	46150.235	13.193	-9.470	1.00	0.00	C
	ATOM	636	C	ASN	A	46149.317	11.976	-9.459	1.00	0.00	C
	ATOM	637	O	ASN	A	46148.674	11.660	-10.460	1.00	0.00	O
	ATOM	638	CB	ASN	A	46149.488	14.408	-10.023	1.00	0.00	C
	ATOM	639	CG	ASN	A	46148.414	14.909	-9.078	1.00	0.00	C
10	ATOM	640	OD1	ASN	A	46147.337	14.320	-8.976	1.00	0.00	O
	ATOM	641	ND2	ASN	A	46148.701	16.002	-8.381	1.00	0.00	N
	ATOM	642	H	ASN	A	46151.517	13.350	-11.148	1.00	0.00	H
	ATOM	643	HA	ASN	A	46150.552	13.403	-8.459	1.00	0.00	H
	ATOM	644	1HB	ASN	A	46150.192	15.210	-10.193	1.00	0.00	H
15	ATOM	645	2HB	ASN	A	46149.022	14.140	-10.960	1.00	0.00	H
	ATOM	646	1HD2	ASN	A	46149.578	16.418	-8.513	1.00	0.00	H
	ATOM	647	2HD2	ASN	A	46148.024	16.347	-7.762	1.00	0.00	H
	ATOM	648	N	GLU	A	47149.262	11.298	-8.318	1.00	0.00	N
	ATOM	649	CA	GLU	A	47148.424	10.115	-8.169	1.00	0.00	C
20	ATOM	650	C	GLU	A	47148.293	9.726	-6.701	1.00	0.00	C
	ATOM	651	O	GLU	A	47149.290	9.450	-6.033	1.00	0.00	O
	ATOM	652	CB	GLU	A	47149.005	8.945	-8.967	1.00	0.00	C
	ATOM	653	CG	GLU	A	47150.523	8.861	-8.914	1.00	0.00	C
	ATOM	654	CD	GLU	A	47151.092	7.924	-9.962	1.00	0.00	C
25	ATOM	655	OE1	GLU	A	47151.464	6.787	-9.603	1.00	0.00	O
	ATOM	656	OE2	GLU	A	47151.164	8.328	-11.142	1.00	0.00	O
	ATOM	657	H	GLU	A	47149.799	11.601	-7.558	1.00	0.00	H
	ATOM	658	HA	GLU	A	47147.445	10.351	-8.555	1.00	0.00	H
	ATOM	659	1HB	GLU	A	47148.602	8.022	-8.577	1.00	0.00	H

	ATOM	660	2HB	GLU A	47148.709	9.048	-10.001	1.00	0.00	H
	ATOM	661	1HG	GLU A	47150.931	9.847	-9.076	1.00	0.00	H
	ATOM	662	2HG	GLU A	47150.820	8.507	-7.938	1.00	0.00	H
	ATOM	663	N	VAL A	48147.064	9.696	-6.203	1.00	0.00	N
5	ATOM	664	CA	VAL A	48146.817	9.330	-4.815	1.00	0.00	C
	ATOM	665	C	VAL A	48147.192	7.874	-4.570	1.00	0.00	C
	ATOM	666	O	VAL A	48146.430	6.963	-4.895	1.00	0.00	O
	ATOM	667	CB	VAL A	48145.342	9.544	-4.426	1.00	0.00	C
	ATOM	668	CG1	VAL A	48145.152	9.357	-2.928	1.00	0.00	C
10	ATOM	669	CG2	VAL A	48144.869	10.922	-4.863	1.00	0.00	C
	ATOM	670	H	VAL A	48146.305	9.918	-6.782	1.00	0.00	H
	ATOM	671	HA	VAL A	48147.433	9.961	-4.188	1.00	0.00	H
	ATOM	672	HB	VAL A	48144.745	8.803	-4.936	1.00	0.00	H
	ATOM	673	1HG1	VAL A	48144.216	9.803	-2.627	1.00	0.00	H
15	ATOM	674	2HG1	VAL A	48145.964	9.833	-2.401	1.00	0.00	H
	ATOM	675	3HG1	VAL A	48145.140	8.302	-2.696	1.00	0.00	H
	ATOM	676	1HG2	VAL A	48145.632	11.653	-4.636	1.00	0.00	H
	ATOM	677	2HG2	VAL A	48143.961	11.174	-4.337	1.00	0.00	H
	ATOM	678	3HG2	VAL A	48144.681	10.918	-5.926	1.00	0.00	H
20	ATOM	679	N	LEU A	49148.373	7.660	-4.000	1.00	0.00	N
	ATOM	680	CA	LEU A	49148.852	6.313	-3.717	1.00	0.00	C
	ATOM	681	C	LEU A	49148.792	6.021	-2.223	1.00	0.00	C
	ATOM	682	O	LEU A	49149.500	6.641	-1.431	1.00	0.00	O
	ATOM	683	CB	LEU A	49150.283	6.140	-4.227	1.00	0.00	C
25	ATOM	684	CG	LEU A	49150.454	6.288	-5.740	1.00	0.00	C
	ATOM	685	CD1	LEU A	49151.838	6.822	-6.071	1.00	0.00	C
	ATOM	686	CD2	LEU A	49150.214	4.956	-6.434	1.00	0.00	C
	ATOM	687	H	LEU A	49148.937	8.425	-3.765	1.00	0.00	H
	ATOM	688	HA	LEU A	49148.208	5.617	-4.234	1.00	0.00	H

	ATOM	689	1HB	LEU A	49150.907	6.878	-3.741	1.00	0.00	H
	ATOM	690	2HB	LEU A	49150.629	5.158	-3.942	1.00	0.00	H
	ATOM	691	HG	LEU A	49149.726	6.995	-6.111	1.00	0.00	H
	ATOM	692	1HD1	LEU A	49151.800	7.900	-6.146	1.00	0.00	H
5	ATOM	693	2HD1	LEU A	49152.169	6.408	-7.012	1.00	0.00	H
	ATOM	694	3HD1	LEU A	49152.530	6.540	-5.290	1.00	0.00	H
	ATOM	695	1HD2	LEU A	49149.181	4.891	-6.742	1.00	0.00	H
	ATOM	696	2HD2	LEU A	49150.438	4.149	-5.751	1.00	0.00	H
	ATOM	697	3HD2	LEU A	49150.854	4.882	-7.301	1.00	0.00	H
10	ATOM	698	N	ALA A	50147.943	5.072	-1.846	1.00	0.00	N
	ATOM	699	CA	ALA A	50147.794	4.702	-0.446	1.00	0.00	C
	ATOM	700	C	ALA A	50148.728	3.553	-0.081	1.00	0.00	C
	ATOM	701	O	ALA A	50148.587	2.440	-0.588	1.00	0.00	O
	ATOM	702	CB	ALA A	50146.350	4.325	-0.152	1.00	0.00	C
15	ATOM	703	H	ALA A	50147.405	4.613	-2.524	1.00	0.00	H
	ATOM	704	HA	ALA A	50148.047	5.565	0.151	1.00	0.00	H
	ATOM	705	1HB	ALA A	50145.908	3.878	-1.029	1.00	0.00	H
	ATOM	706	2HB	ALA A	50145.795	5.211	0.119	1.00	0.00	H
	ATOM	707	3HB	ALA A	50146.321	3.620	0.666	1.00	0.00	H
20	ATOM	708	N	GLY A	51149.682	3.830	0.801	1.00	0.00	N
	ATOM	709	CA	GLY A	51150.625	2.809	1.219	1.00	0.00	C
	ATOM	710	C	GLY A	51149.976	1.735	2.070	1.00	0.00	C
	ATOM	711	O	GLY A	51149.657	1.965	3.236	1.00	0.00	O
	ATOM	712	H	GLY A	51149.746	4.734	1.173	1.00	0.00	H
25	ATOM	713	1HA	GLY A	51151.052	2.348	0.341	1.00	0.00	H
	ATOM	714	2HA	GLY A	51151.414	3.275	1.789	1.00	0.00	H
	ATOM	715	N	LEU A	52149.779	0.557	1.485	1.00	0.00	N
	ATOM	716	CA	LEU A	52149.164	-0.556	2.198	1.00	0.00	C
	ATOM	717	C	LEU A	52150.224	-1.465	2.808	1.00	0.00	C

	ATOM	718	O	LEU A	52151.150	-1.902	2.125	1.00	0.00	O
	ATOM	719	CB	LEU A	52148.265	-1.358	1.256	1.00	0.00	C
	ATOM	720	CG	LEU A	52147.001	-0.634	0.792	1.00	0.00	C
	ATOM	721	CD1	LEU A	52146.360	-1.372	-0.373	1.00	0.00	C
5	ATOM	722	CD2	LEU A	52146.016	-0.493	1.943	1.00	0.00	C
	ATOM	723	H	LEU A	52150.054	0.434	0.553	1.00	0.00	H
	ATOM	724	HA	LEU A	52148.559	-0.145	2.994	1.00	0.00	H
	ATOM	725	1HB	LEU A	52148.844	-1.626	0.383	1.00	0.00	H
	ATOM	726	2HB	LEU A	52147.968	-2.266	1.761	1.00	0.00	H
10	ATOM	727	HG	LEU A	52147.265	0.358	0.453	1.00	0.00	H
	ATOM	728	1HD1	LEU A	52146.068	-2.362	-0.055	1.00	0.00	H
	ATOM	729	2HD1	LEU A	52147.069	-1.448	-1.184	1.00	0.00	H
	ATOM	730	3HD1	LEU A	52145.488	-0.829	-0.707	1.00	0.00	H
	ATOM	731	1HD2	LEU A	52145.198	0.145	1.641	1.00	0.00	H
15	ATOM	732	2HD2	LEU A	52146.517	-0.057	2.794	1.00	0.00	H
	ATOM	733	3HD2	LEU A	52145.633	-1.467	2.211	1.00	0.00	H
	ATOM	734	N	GLU A	53150.082	-1.748	4.100	1.00	0.00	N
	ATOM	735	CA	GLU A	53151.027	-2.607	4.802	1.00	0.00	C
	ATOM	736	C	GLU A	53150.520	-4.044	4.856	1.00	0.00	C
20	ATOM	737	O	GLU A	53149.535	-4.340	5.532	1.00	0.00	O
	ATOM	738	CB	GLU A	53151.266	-2.085	6.221	1.00	0.00	C
	ATOM	739	CG	GLU A	53152.268	-2.908	7.013	1.00	0.00	C
	ATOM	740	CD	GLU A	53151.835	-3.131	8.448	1.00	0.00	C
	ATOM	741	OE1	GLU A	53151.291	-4.216	8.744	1.00	0.00	O
25	ATOM	742	OE2	GLU A	53152.041	-2.220	9.279	1.00	0.00	O
	ATOM	743	H	GLU A	53149.323	-1.370	4.591	1.00	0.00	H
	ATOM	744	HA	GLU A	53151.961	-2.587	4.259	1.00	0.00	H
	ATOM	745	1HB	GLU A	53151.633	-1.071	6.162	1.00	0.00	H
	ATOM	746	2HB	GLU A	53150.327	-2.087	6.756	1.00	0.00	H

	ATOM	747	1HG	GLU A	53152.382	-3.870	6.534	1.00	0.00	H
	ATOM	748	2HG	GLU A	53153.217	-2.393	7.013	1.00	0.00	H
	ATOM	749	N	LEU A	54151.200	-4.933	4.139	1.00	0.00	N
	ATOM	750	CA	LEU A	54150.817	-6.340	4.105	1.00	0.00	C
5	ATOM	751	C	LEU A	54151.111	-7.016	5.440	1.00	0.00	C
	ATOM	752	O	LEU A	54152.156	-6.782	6.049	1.00	0.00	O
	ATOM	753	CB	LEU A	54151.558	-7.064	2.979	1.00	0.00	C
	ATOM	754	CG	LEU A	54151.517	-6.362	1.621	1.00	0.00	C
	ATOM	755	CD1	LEU A	54152.750	-6.710	0.802	1.00	0.00	C
10	ATOM	756	CD2	LEU A	54150.250	-6.737	0.867	1.00	0.00	C
	ATOM	757	H	LEU A	54151.976	-4.637	3.621	1.00	0.00	H
	ATOM	758	HA	LEU A	54149.755	-6.390	3.916	1.00	0.00	H
	ATOM	759	1HB	LEU A	54152.592	-7.178	3.272	1.00	0.00	H
	ATOM	760	2HB	LEU A	54151.123	-8.046	2.864	1.00	0.00	H
15	ATOM	761	HG	LEU A	54151.510	-5.293	1.776	1.00	0.00	H
	ATOM	762	1HD1	LEU A	54152.593	-6.419	-0.226	1.00	0.00	H
	ATOM	763	2HD1	LEU A	54152.926	-7.775	0.853	1.00	0.00	H
	ATOM	764	3HD1	LEU A	54153.605	-6.184	1.199	1.00	0.00	H
	ATOM	765	1HD2	LEU A	54150.238	-7.803	0.691	1.00	0.00	H
20	ATOM	766	2HD2	LEU A	54150.227	-6.216	-0.080	1.00	0.00	H
	ATOM	767	3HD2	LEU A	54149.386	-6.459	1.452	1.00	0.00	H
	ATOM	768	N	GLU A	55150.185	-7.857	5.890	1.00	0.00	N
	ATOM	769	CA	GLU A	55150.346	-8.568	7.153	1.00	0.00	C
	ATOM	770	C	GLU A	55151.400	-9.662	7.031	1.00	0.00	C
25	ATOM	771	O	GLU A	55152.098	-9.977	7.995	1.00	0.00	O
	ATOM	772	CB	GLU A	55149.013	-9.174	7.594	1.00	0.00	C
	ATOM	773	CG	GLU A	55148.076	-8.172	8.249	1.00	0.00	C
	ATOM	774	CD	GLU A	55146.632	-8.363	7.827	1.00	0.00	C
	ATOM	775	OE1	GLU A	55145.767	-8.503	8.717	1.00	0.00	O

	ATOM	776	OE2	GLU	A	55146.366	-8.371	6.606	1.00	0.00	O
	ATOM	777	H	GLU	A	55149.374	-8.002	5.359	1.00	0.00	H
	ATOM	778	HA	GLU	A	55150.670	-7.853	7.895	1.00	0.00	H
	ATOM	779	1HB	GLU	A	55148.515	-9.588	6.730	1.00	0.00	H
5	ATOM	780	2HB	GLU	A	55149.207	-9.967	8.301	1.00	0.00	H
	ATOM	781	1HG	GLU	A	55148.139	-8.286	9.321	1.00	0.00	H
	ATOM	782	2HG	GLU	A	55148.387	-7.174	7.974	1.00	0.00	H
	ATOM	783	N	ASP	A	56151.511	-10.239	5.839	1.00	0.00	N
	ATOM	784	CA	ASP	A	56152.481	-11.300	5.590	1.00	0.00	C
10	ATOM	785	C	ASP	A	56153.770	-10.732	5.004	1.00	0.00	C
	ATOM	786	O	ASP	A	56153.744	-10.008	4.008	1.00	0.00	O
	ATOM	787	CB	ASP	A	56151.893	-12.345	4.642	1.00	0.00	C
	ATOM	788	CG	ASP	A	56151.185	-13.464	5.381	1.00	0.00	C
	ATOM	789	OD1	ASP	A	56151.383	-14.640	5.009	1.00	0.00	O
15	ATOM	790	OD2	ASP	A	56150.434	-13.164	6.333	1.00	0.00	O
	ATOM	791	H	ASP	A	56150.927	-9.945	5.109	1.00	0.00	H
	ATOM	792	HA	ASP	A	56152.707	-11.770	6.535	1.00	0.00	H
	ATOM	793	1HB	ASP	A	56151.181	-11.867	3.985	1.00	0.00	H
	ATOM	794	2HB	ASP	A	56152.688	-12.775	4.051	1.00	0.00	H
20	ATOM	795	N	GLU	A	57154.895	-11.065	5.626	1.00	0.00	N
	ATOM	796	CA	GLU	A	57156.194	-10.588	5.166	1.00	0.00	C
	ATOM	797	C	GLU	A	57156.577	-11.245	3.845	1.00	0.00	C
	ATOM	798	O	GLU	A	57157.029	-12.390	3.817	1.00	0.00	O
	ATOM	799	CB	GLU	A	57157.267	-10.870	6.220	1.00	0.00	C
25	ATOM	800	CG	GLU	A	57157.447	-9.740	7.221	1.00	0.00	C
	ATOM	801	CD	GLU	A	57158.872	-9.634	7.728	1.00	0.00	C
	ATOM	802	OE1	GLU	A	57159.805	-9.697	6.900	1.00	0.00	O
	ATOM	803	OE2	GLU	A	57159.056	-9.488	8.955	1.00	0.00	O
	ATOM	804	H	GLU	A	57154.851	-11.645	6.416	1.00	0.00	H

	ATOM	805	HA	GLU A	57156.121	-9.522	5.016	1.00	0.00	H
	ATOM	806	1HB	GLU A	57156.996	-11.764	6.763	1.00	0.00	H
	ATOM	807	2HB	GLU A	57158.211	-11.035	5.721	1.00	0.00	H
	ATOM	808	1HG	GLU A	57157.181	-8.809	6.746	1.00	0.00	H
5	ATOM	809	2HG	GLU A	57156.793	-9.914	8.062	1.00	0.00	H
	ATOM	810	N	CYS A	58156.395	-10.513	2.750	1.00	0.00	N
	ATOM	811	CA	CYS A	58156.722	-11.025	1.425	1.00	0.00	C
	ATOM	812	C	CYS A	58158.004	-10.389	0.898	1.00	0.00	C
	ATOM	813	O	CYS A	58158.094	-9.169	0.762	1.00	0.00	O
10	ATOM	814	CB	CYS A	58155.570	-10.760	0.454	1.00	0.00	C
	ATOM	815	SG	CYS A	58154.347	-12.089	0.379	1.00	0.00	S
	ATOM	816	H	CYS A	58156.032	-9.607	2.837	1.00	0.00	H
	ATOM	817	HA	CYS A	58156.872	-12.091	1.509	1.00	0.00	H
	ATOM	818	1HB	CYS A	58155.057	-9.858	0.754	1.00	0.00	H
15	ATOM	819	2HB	CYS A	58155.972	-10.625	-0.540	1.00	0.00	H
	ATOM	820	HG	CYS A	58154.819	-12.920	0.284	1.00	0.00	H
	ATOM	821	N	ALA A	59158.995	-11.225	0.602	1.00	0.00	N
	ATOM	822	CA	ALA A	59160.272	-10.744	0.090	1.00	0.00	C
	ATOM	823	C	ALA A	59160.092	-10.017	-1.238	1.00	0.00	C
20	ATOM	824	O	ALA A	59159.556	-10.575	-2.195	1.00	0.00	O
	ATOM	825	CB	ALA A	59161.246	-11.902	-0.069	1.00	0.00	C
	ATOM	826	H	ALA A	59158.864	-12.187	0.732	1.00	0.00	H
	ATOM	827	HA	ALA A	59160.683	-10.055	0.813	1.00	0.00	H
	ATOM	828	1HB	ALA A	59161.919	-11.697	-0.889	1.00	0.00	H
25	ATOM	829	2HB	ALA A	59160.697	-12.809	-0.272	1.00	0.00	H
	ATOM	830	3HB	ALA A	59161.814	-12.021	0.841	1.00	0.00	H
	ATOM	831	N	GLY A	60160.541	-8.767	-1.288	1.00	0.00	N
	ATOM	832	CA	GLY A	60160.420	-7.984	-2.504	1.00	0.00	C
	ATOM	833	C	GLY A	60159.945	-6.569	-2.237	1.00	0.00	C



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	ATOM	834	O	GLY A	60160.265	-5.647	-2.989	1.00	0.00	O
	ATOM	835	H	GLY A	60160.959	-8.373	-0.494	1.00	0.00	H
	ATOM	836	1HA	GLY A	60161.382	-7.943	-2.991	1.00	0.00	H
	ATOM	837	2HA	GLY A	60159.715	-8.469	-3.163	1.00	0.00	H
5	ATOM	838	N	CYS A	61159.183	-6.395	-1.163	1.00	0.00	N
	ATOM	839	CA	CYS A	61158.664	-5.082	-0.798	1.00	0.00	C
	ATOM	840	C	CYS A	61159.626	-4.359	0.140	1.00	0.00	C
	ATOM	841	O	CYS A	61160.633	-4.922	0.567	1.00	0.00	O
	ATOM	842	CB	CYS A	61157.293	-5.218	-0.136	1.00	0.00	C
10	ATOM	843	SG	CYS A	61156.080	-6.119	-1.129	1.00	0.00	S
	ATOM	844	H	CYS A	61158.963	-7.168	-0.602	1.00	0.00	H
	ATOM	845	HA	CYS A	61158.561	-4.503	-1.704	1.00	0.00	H
	ATOM	846	1HB	CYS A	61157.403	-5.742	0.801	1.00	0.00	H
	ATOM	847	2HB	CYS A	61156.894	-4.232	0.055	1.00	0.00	H
15	ATOM	848	HG	CYS A	61156.127	-5.787	-2.029	1.00	0.00	H
	ATOM	849	N	THR A	62159.306	-3.107	0.457	1.00	0.00	N
	ATOM	850	CA	THR A	62160.142	-2.308	1.345	1.00	0.00	C
	ATOM	851	C	THR A	62159.530	-2.225	2.739	1.00	0.00	C
	ATOM	852	O	THR A	62158.568	-2.929	3.048	1.00	0.00	O
20	ATOM	853	CB	THR A	62160.329	-0.902	0.774	1.00	0.00	C
	ATOM	854	OG1	THR A	62159.146	-0.138	0.925	1.00	0.00	O
	ATOM	855	CG2	THR A	62160.696	-0.896	-0.695	1.00	0.00	C
	ATOM	856	H	THR A	62158.490	-2.714	0.084	1.00	0.00	H
	ATOM	857	HA	THR A	62161.106	-2.789	1.416	1.00	0.00	H
25	ATOM	858	HB	THR A	62161.123	-0.407	1.314	1.00	0.00	H
	ATOM	859	HG1	THR A	62158.400	-0.629	0.572	1.00	0.00	H
	ATOM	860	1HG2	THR A	62161.182	0.036	-0.941	1.00	0.00	H
	ATOM	861	2HG2	THR A	62159.800	-1.003	-1.290	1.00	0.00	H
	ATOM	862	3HG2	THR A	62161.365	-1.718	-0.902	1.00	0.00	H

	ATOM	863	N	ASP	A	63160.095	-1.362	3.578	1.00	0.00	N
	ATOM	864	CA	ASP	A	63159.605	-1.188	4.940	1.00	0.00	C
	ATOM	865	C	ASP	A	63158.822	0.115	5.073	1.00	0.00	C
	ATOM	866	O	ASP	A	63158.815	0.740	6.134	1.00	0.00	O
5	ATOM	867	CB	ASP	A	63160.772	-1.199	5.930	1.00	0.00	C
	ATOM	868	CG	ASP	A	63161.778	-0.100	5.649	1.00	0.00	C
	ATOM	869	OD1	ASP	A	63162.909	-0.422	5.230	1.00	0.00	O
	ATOM	870	OD2	ASP	A	63161.434	1.085	5.850	1.00	0.00	O
	ATOM	871	H	ASP	A	63160.860	-0.830	3.272	1.00	0.00	H
10	ATOM	872	HA	ASP	A	63158.947	-2.013	5.164	1.00	0.00	H
	ATOM	873	1HB	ASP	A	63160.389	-1.064	6.930	1.00	0.00	H
	ATOM	874	2HB	ASP	A	63161.279	-2.151	5.867	1.00	0.00	H
	ATOM	875	N	GLY	A	64158.166	0.519	3.991	1.00	0.00	N
	ATOM	876	CA	GLY	A	64157.389	1.744	4.009	1.00	0.00	C
15	ATOM	877	C	GLY	A	64158.114	2.900	3.347	1.00	0.00	C
	ATOM	878	O	GLY	A	64158.167	4.002	3.892	1.00	0.00	O
	ATOM	879	H	GLY	A	64158.208	-0.020	3.174	1.00	0.00	H
	ATOM	880	1HA	GLY	A	64156.457	1.574	3.492	1.00	0.00	H
	ATOM	881	2HA	GLY	A	64157.177	2.008	5.035	1.00	0.00	H
20	ATOM	882	N	THR	A	65158.674	2.647	2.168	1.00	0.00	N
	ATOM	883	CA	THR	A	65159.399	3.675	1.431	1.00	0.00	C
	ATOM	884	C	THR	A	65159.023	3.652	-0.047	1.00	0.00	C
	ATOM	885	O	THR	A	65159.172	2.632	-0.720	1.00	0.00	O
	ATOM	886	CB	THR	A	65160.908	3.476	1.589	1.00	0.00	C
25	ATOM	887	OG1	THR	A	65161.327	2.287	0.941	1.00	0.00	O
	ATOM	888	CG2	THR	A	65161.353	3.394	3.032	1.00	0.00	C
	ATOM	889	H	THR	A	65158.598	1.748	1.786	1.00	0.00	H
	ATOM	890	HA	THR	A	65159.127	4.635	1.845	1.00	0.00	H
	ATOM	891	HB	THR	A	65161.420	4.310	1.131	1.00	0.00	H

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	ATOM	892	HG1	THR	A	65160.733	1.570	1.174	1.00	0.00	H
	ATOM	893	1HG2	THR	A	65161.703	2.395	3.245	1.00	0.00	H
	ATOM	894	2HG2	THR	A	65160.521	3.631	3.680	1.00	0.00	H
	ATOM	895	3HG2	THR	A	65162.154	4.099	3.203	1.00	0.00	H
5	ATOM	896	N	PHE	A	66158.536	4.784	-0.546	1.00	0.00	N
	ATOM	897	CA	PHE	A	66158.138	4.894	-1.945	1.00	0.00	C
	ATOM	898	C	PHE	A	66159.106	5.785	-2.717	1.00	0.00	C
	ATOM	899	O	PHE	A	66159.243	6.971	-2.422	1.00	0.00	O
	ATOM	900	CB	PHE	A	66156.718	5.452	-2.051	1.00	0.00	C
10	ATOM	901	CG	PHE	A	66156.051	5.152	-3.362	1.00	0.00	C
	ATOM	902	CD1	PHE	A	66155.567	6.177	-4.159	1.00	0.00	C
	ATOM	903	CD2	PHE	A	66155.908	3.844	-3.798	1.00	0.00	C
	ATOM	904	CE1	PHE	A	66154.953	5.903	-5.367	1.00	0.00	C
	ATOM	905	CE2	PHE	A	66155.294	3.564	-5.004	1.00	0.00	C
15	ATOM	906	CZ	PHE	A	66154.816	4.596	-5.790	1.00	0.00	C
	ATOM	907	H	PHE	A	66158.441	5.563	0.040	1.00	0.00	H
	ATOM	908	HA	PHE	A	66158.159	3.904	-2.374	1.00	0.00	H
	ATOM	909	1HB	PHE	A	66156.112	5.028	-1.265	1.00	0.00	H
	ATOM	910	2HB	PHE	A	66156.752	6.526	-1.931	1.00	0.00	H
20	ATOM	911	HD1	PHE	A	66155.674	7.200	-3.829	1.00	0.00	H
	ATOM	912	HD2	PHE	A	66156.282	3.037	-3.185	1.00	0.00	H
	ATOM	913	HE1	PHE	A	66154.579	6.711	-5.978	1.00	0.00	H
	ATOM	914	HE2	PHE	A	66155.189	2.541	-5.333	1.00	0.00	H
	ATOM	915	HZ	PHE	A	66154.337	4.379	-6.732	1.00	0.00	H
25	ATOM	916	N	ARG	A	67159.776	5.204	-3.706	1.00	0.00	N
	ATOM	917	CA	ARG	A	67160.732	5.945	-4.521	1.00	0.00	C
	ATOM	918	C	ARG	A	67161.860	6.505	-3.662	1.00	0.00	C
	ATOM	919	O	ARG	A	67162.359	7.602	-3.913	1.00	0.00	O
	ATOM	920	CB	ARG	A	67160.026	7.082	-5.263	1.00	0.00	C

	ATOM	921	CG	ARG A	67158.955	6.606	-6.229	1.00	0.00	C
	ATOM	922	CD	ARG A	67158.909	7.468	-7.481	1.00	0.00	C
	ATOM	923	NE	ARG A	67160.062	7.236	-8.347	1.00	0.00	N
	ATOM	924	CZ	ARG A	67160.434	8.061	-9.323	1.00	0.00	C
5	ATOM	925	NH1	ARG A	67159.746	9.171	-9.562	1.00	0.00	N
	ATOM	926	NH2	ARG A	67161.496	7.775	-10.064	1.00	0.00	N
	ATOM	927	H	ARG A	67159.624	4.254	-3.893	1.00	0.00	H
	ATOM	928	HA	ARG A	67161.150	5.261	-5.244	1.00	0.00	H
	ATOM	929	1HB	ARG A	67159.564	7.736	-4.539	1.00	0.00	H
10	ATOM	930	2HB	ARG A	67160.762	7.642	-5.822	1.00	0.00	H
	ATOM	931	1HG	ARG A	67159.166	5.587	-6.514	1.00	0.00	H
	ATOM	932	2HG	ARG A	67157.994	6.651	-5.736	1.00	0.00	H
	ATOM	933	1HD	ARG A	67158.008	7.237	-8.029	1.00	0.00	H
	ATOM	934	2HD	ARG A	67158.894	8.507	-7.186	1.00	0.00	H
15	ATOM	935	HE	ARG A	67160.588	6.424	-8.193	1.00	0.00	H
	ATOM	936	1HH1	ARG A	67158.944	9.393	-9.007	1.00	0.00	H
	ATOM	937	2HH1	ARG A	67160.030	9.786	-10.297	1.00	0.00	H
	ATOM	938	1HH2	ARG A	67162.018	6.940	-9.888	1.00	0.00	H
	ATOM	939	2HH2	ARG A	67161.775	8.395	-10.798	1.00	0.00	H
20	ATOM	940	N	GLY A	68162.258	5.744	-2.648	1.00	0.00	N
	ATOM	941	CA	GLY A	68163.326	6.180	-1.767	1.00	0.00	C
	ATOM	942	C	GLY A	68162.888	7.290	-0.831	1.00	0.00	C
	ATOM	943	O	GLY A	68163.699	8.118	-0.417	1.00	0.00	O
	ATOM	944	H	GLY A	68161.824	4.879	-2.497	1.00	0.00	H
25	ATOM	945	1HA	GLY A	68163.660	5.339	-1.179	1.00	0.00	H
	ATOM	946	2HA	GLY A	68164.150	6.537	-2.368	1.00	0.00	H
	ATOM	947	N	THR A	69161.602	7.306	-0.497	1.00	0.00	N
	ATOM	948	CA	THR A	69161.057	8.321	0.396	1.00	0.00	C
	ATOM	949	C	THR A	69160.168	7.689	1.461	1.00	0.00	C

	ATOM	950	O	THR	A	69159.055	7.247	1.174	1.00	0.00	O
	ATOM	951	CB	THR	A	69160.261	9.357	-0.401	1.00	0.00	C
	ATOM	952	OG1	THR	A	69160.900	9.644	-1.631	1.00	0.00	O
	ATOM	953	CG2	THR	A	69160.075	10.666	0.336	1.00	0.00	C
5	ATOM	954	H	THR	A	69161.005	6.618	-0.860	1.00	0.00	H
	ATOM	955	HA	THR	A	69161.886	8.814	0.882	1.00	0.00	H
	ATOM	956	HB	THR	A	69159.281	8.955	-0.614	1.00	0.00	H
	ATOM	957	HG1	THR	A	69161.773	10.008	-1.461	1.00	0.00	H
	ATOM	958	1HG2	THR	A	69160.256	11.488	-0.340	1.00	0.00	H
10	ATOM	959	2HG2	THR	A	69160.772	10.717	1.160	1.00	0.00	H
	ATOM	960	3HG2	THR	A	69159.065	10.725	0.714	1.00	0.00	H
	ATOM	961	N	ARG	A	70160.666	7.649	2.693	1.00	0.00	N
	ATOM	962	CA	ARG	A	70159.916	7.070	3.801	1.00	0.00	C
	ATOM	963	C	ARG	A	70158.751	7.971	4.200	1.00	0.00	C
15	ATOM	964	O	ARG	A	70158.945	9.137	4.541	1.00	0.00	O
	ATOM	965	CB	ARG	A	70160.835	6.844	5.004	1.00	0.00	C
	ATOM	966	CG	ARG	A	70160.136	6.206	6.193	1.00	0.00	C
	ATOM	967	CD	ARG	A	70160.931	6.397	7.474	1.00	0.00	C
	ATOM	968	NE	ARG	A	70162.034	5.445	7.582	1.00	0.00	N
20	ATOM	969	CZ	ARG	A	70163.054	5.585	8.426	1.00	0.00	C
	ATOM	970	NH1	ARG	A	70163.116	6.635	9.235	1.00	0.00	N
	ATOM	971	NH2	ARG	A	70164.015	4.673	8.459	1.00	0.00	N
	ATOM	972	H	ARG	A	70161.559	8.016	2.860	1.00	0.00	H
	ATOM	973	HA	ARG	A	70159.524	6.118	3.476	1.00	0.00	H
25	ATOM	974	1HB	ARG	A	70161.649	6.200	4.704	1.00	0.00	H
	ATOM	975	2HB	ARG	A	70161.239	7.796	5.318	1.00	0.00	H
	ATOM	976	1HG	ARG	A	70159.164	6.660	6.312	1.00	0.00	H
	ATOM	977	2HG	ARG	A	70160.020	5.149	6.005	1.00	0.00	H
	ATOM	978	1HD	ARG	A	70161.331	7.400	7.489	1.00	0.00	H

	ATOM	979	2HD	ARG	A	70160.268	6.263	8.317	1.00	0.00	H
	ATOM	980	HE	ARG	A	70162.013	4.661	6.995	1.00	0.00	H
	ATOM	981	1HH1	ARG	A	70162.394	7.327	9.215	1.00	0.00	H
	ATOM	982	2HH1	ARG	A	70163.885	6.734	9.866	1.00	0.00	H
5	ATOM	983	1HH2	ARG	A	70163.974	3.880	7.851	1.00	0.00	H
	ATOM	984	2HH2	ARG	A	70164.782	4.778	9.092	1.00	0.00	H
	ATOM	985	N	TYR	A	71157.543	7.421	4.154	1.00	0.00	N
	ATOM	986	CA	TYR	A	71156.346	8.176	4.510	1.00	0.00	C
	ATOM	987	C	TYR	A	71155.852	7.788	5.900	1.00	0.00	C
10	ATOM	988	O	TYR	A	71155.446	8.644	6.686	1.00	0.00	O
	ATOM	989	CB	TYR	A	71155.242	7.936	3.479	1.00	0.00	C
	ATOM	990	CG	TYR	A	71155.536	8.538	2.124	1.00	0.00	C
	ATOM	991	CD1	TYR	A	71156.048	9.825	2.011	1.00	0.00	C
	ATOM	992	CD2	TYR	A	71155.304	7.820	0.958	1.00	0.00	C
15	ATOM	993	CE1	TYR	A	71156.318	10.379	0.773	1.00	0.00	C
	ATOM	994	CE2	TYR	A	71155.572	8.367	-0.283	1.00	0.00	C
	ATOM	995	CZ	TYR	A	71156.079	9.647	-0.369	1.00	0.00	C
	ATOM	996	OH	TYR	A	71156.347	10.193	-1.603	1.00	0.00	O
	ATOM	997	H	TYR	A	71157.452	6.487	3.874	1.00	0.00	H
20	ATOM	998	HA	TYR	A	71156.604	9.224	4.511	1.00	0.00	H
	ATOM	999	1HB	TYR	A	71155.106	6.873	3.346	1.00	0.00	H
	ATOM	1000	2HB	TYR	A	71154.321	8.368	3.842	1.00	0.00	H
	ATOM	1001	HD1	TYR	A	71156.234	10.397	2.908	1.00	0.00	H
	ATOM	1002	HD2	TYR	A	71154.906	6.819	1.029	1.00	0.00	H
25	ATOM	1003	HE1	TYR	A	71156.716	11.381	0.706	1.00	0.00	H
	ATOM	1004	HE2	TYR	A	71155.384	7.793	-1.178	1.00	0.00	H
	ATOM	1005	HH	TYR	A	71157.236	9.952	-1.874	1.00	0.00	H
	ATOM	1006	N	PHE	A	72155.891	6.494	6.197	1.00	0.00	N
	ATOM	1007	CA	PHE	A	72155.448	5.993	7.492	1.00	0.00	C

	ATOM	1008	C	PHE A	72156.433	4.968	8.045	1.00	0.00	C
	ATOM	1009	O	PHE A	72157.368	4.556	7.358	1.00	0.00	O
	ATOM	1010	CB	PHE A	72154.057	5.368	7.373	1.00	0.00	C
	ATOM	1011	CG	PHE A	72153.981	4.262	6.359	1.00	0.00	C
5	ATOM	1012	CD1	PHE A	72154.205	2.946	6.733	1.00	0.00	C
	ATOM	1013	CD2	PHE A	72153.686	4.538	5.034	1.00	0.00	C
	ATOM	1014	CE1	PHE A	72154.135	1.926	5.802	1.00	0.00	C
	ATOM	1015	CE2	PHE A	72153.616	3.522	4.099	1.00	0.00	C
	ATOM	1016	CZ	PHE A	72153.841	2.214	4.484	1.00	0.00	C
10	ATOM	1017	H	PHE A	72156.226	5.859	5.528	1.00	0.00	H
	ATOM	1018	HA	PHE A	72155.399	6.831	8.172	1.00	0.00	H
	ATOM	1019	1HB	PHE A	72153.769	4.961	8.330	1.00	0.00	H
	ATOM	1020	2HB	PHE A	72153.350	6.133	7.084	1.00	0.00	H
	ATOM	1021	HD1	PHE A	72154.434	2.719	7.763	1.00	0.00	H
15	ATOM	1022	HD2	PHE A	72153.511	5.560	4.731	1.00	0.00	H
	ATOM	1023	HE1	PHE A	72154.311	0.905	6.106	1.00	0.00	H
	ATOM	1024	HE2	PHE A	72153.386	3.751	3.069	1.00	0.00	H
	ATOM	1025	HZ	PHE A	72153.786	1.419	3.756	1.00	0.00	H
	ATOM	1026	N	THR A	73156.216	4.559	9.291	1.00	0.00	N
20	ATOM	1027	CA	THR A	73157.085	3.581	9.937	1.00	0.00	C
	ATOM	1028	C	THR A	73156.374	2.242	10.094	1.00	0.00	C
	ATOM	1029	O	THR A	73155.396	2.129	10.834	1.00	0.00	O
	ATOM	1030	CB	THR A	73157.538	4.094	11.304	1.00	0.00	C
	ATOM	1031	OG1	THR A	73157.838	5.477	11.247	1.00	0.00	O
25	ATOM	1032	CG2	THR A	73158.761	3.380	11.837	1.00	0.00	C
	ATOM	1033	H	THR A	73155.455	4.923	9.789	1.00	0.00	H
	ATOM	1034	HA	THR A	73157.952	3.443	9.309	1.00	0.00	H
	ATOM	1035	HB	THR A	73156.736	3.951	12.015	1.00	0.00	H
	ATOM	1036	HG1	THR A	73157.472	5.918	12.018	1.00	0.00	H

	ATOM	1037	1HG2	THR	A	73159.373	4.077	12.389	1.00	0.00	H
	ATOM	1038	2HG2	THR	A	73159.331	2.978	11.011	1.00	0.00	H
	ATOM	1039	3HG2	THR	A	73158.454	2.575	12.487	1.00	0.00	H
	ATOM	1040	N	CYS	A	74156.871	1.227	9.394	1.00	0.00	N
5	ATOM	1041	CA	CYS	A	74156.282	-0.106	9.455	1.00	0.00	C
	ATOM	1042	C	CYS	A	74157.366	-1.179	9.459	1.00	0.00	C
	ATOM	1043	O	CYS	A	74158.558	-0.871	9.475	1.00	0.00	O
	ATOM	1044	CB	CYS	A	74155.336	-0.324	8.272	1.00	0.00	C
	ATOM	1045	SG	CYS	A	74153.626	0.165	8.594	1.00	0.00	S
10	ATOM	1046	H	CYS	A	74157.652	1.380	8.821	1.00	0.00	H
	ATOM	1047	HA	CYS	A	74155.718	-0.177	10.373	1.00	0.00	H
	ATOM	1048	1HB	CYS	A	74155.688	0.251	7.429	1.00	0.00	H
	ATOM	1049	2HB	CYS	A	74155.336	-1.372	8.011	1.00	0.00	H
	ATOM	1050	HG	CYS	A	74153.519	0.260	9.543	1.00	0.00	H
15	ATOM	1051	N	ALA	A	75156.944	-2.438	9.446	1.00	0.00	N
	ATOM	1052	CA	ALA	A	75157.878	-3.557	9.448	1.00	0.00	C
	ATOM	1053	C	ALA	A	75158.504	-3.753	8.071	1.00	0.00	C
	ATOM	1054	O	ALA	A	75158.021	-3.212	7.077	1.00	0.00	O
	ATOM	1055	CB	ALA	A	75157.177	-4.830	9.897	1.00	0.00	C
20	ATOM	1056	H	ALA	A	75155.981	-2.620	9.434	1.00	0.00	H
	ATOM	1057	HA	ALA	A	75158.661	-3.336	10.159	1.00	0.00	H
	ATOM	1058	1HB	ALA	A	75156.438	-4.588	10.647	1.00	0.00	H
	ATOM	1059	2HB	ALA	A	75157.902	-5.513	10.314	1.00	0.00	H
	ATOM	1060	3HB	ALA	A	75156.692	-5.292	9.049	1.00	0.00	H
25	ATOM	1061	N	LEU	A	76159.581	-4.530	8.021	1.00	0.00	N
	ATOM	1062	CA	LEU	A	76160.273	-4.798	6.765	1.00	0.00	C
	ATOM	1063	C	LEU	A	76159.514	-5.828	5.935	1.00	0.00	C
	ATOM	1064	O	LEU	A	76158.956	-6.784	6.473	1.00	0.00	O
	ATOM	1065	CB	LEU	A	76161.695	-5.292	7.037	1.00	0.00	C



	ATOM	1066	CG	LEU A	76162.712	-4.195	7.352	1.00	0.00	C
	ATOM	1067	CD1	LEU A	76163.770	-4.708	8.317	1.00	0.00	C
	ATOM	1068	CD2	LEU A	76163.358	-3.686	6.072	1.00	0.00	C
	ATOM	1069	H	LEU A	76159.919	-4.933	8.848	1.00	0.00	H
5	ATOM	1070	HA	LEU A	76160.323	-3.872	6.212	1.00	0.00	H
	ATOM	1071	1HB	LEU A	76161.661	-5.975	7.874	1.00	0.00	H
	ATOM	1072	2HB	LEU A	76162.038	-5.832	6.168	1.00	0.00	H
	ATOM	1073	HG	LEU A	76162.204	-3.366	7.824	1.00	0.00	H
	ATOM	1074	1HD1	LEU A	76164.717	-4.240	8.096	1.00	0.00	H
10	ATOM	1075	2HD1	LEU A	76163.865	-5.779	8.210	1.00	0.00	H
	ATOM	1076	3HD1	LEU A	76163.478	-4.472	9.330	1.00	0.00	H
	ATOM	1077	1HD2	LEU A	76162.688	-3.851	5.241	1.00	0.00	H
	ATOM	1078	2HD2	LEU A	76164.282	-4.216	5.899	1.00	0.00	H
	ATOM	1079	3HD2	LEU A	76163.562	-2.630	6.166	1.00	0.00	H
15	ATOM	1080	N	LYS A	77159.498	-5.627	4.621	1.00	0.00	N
	ATOM	1081	CA	LYS A	77158.807	-6.538	3.716	1.00	0.00	C
	ATOM	1082	C	LYS A	77157.311	-6.563	4.005	1.00	0.00	C
	ATOM	1083	O	LYS A	77156.676	-7.618	3.962	1.00	0.00	O
	ATOM	1084	CB	LYS A	77159.387	-7.948	3.836	1.00	0.00	C
20	ATOM	1085	CG	LYS A	77160.907	-7.984	3.832	1.00	0.00	C
	ATOM	1086	CD	LYS A	77161.469	-7.583	2.478	1.00	0.00	C
	ATOM	1087	CE	LYS A	77162.944	-7.228	2.570	1.00	0.00	C
	ATOM	1088	NZ	LYS A	77163.150	-5.792	2.908	1.00	0.00	N
	ATOM	1089	H	LYS A	77159.962	-4.846	4.252	1.00	0.00	H
25	ATOM	1090	HA	LYS A	77158.960	-6.181	2.707	1.00	0.00	H
	ATOM	1091	1HB	LYS A	77159.041	-8.389	4.760	1.00	0.00	H
	ATOM	1092	2HB	LYS A	77159.033	-8.544	3.008	1.00	0.00	H
	ATOM	1093	1HG	LYS A	77161.275	-7.299	4.580	1.00	0.00	H
	ATOM	1094	2HG	LYS A	77161.235	-8.987	4.066	1.00	0.00	H

	ATOM	1095	1HD	LYS A	77161.351	-8.408	1.791	1.00	0.00	H
	ATOM	1096	2HD	LYS A	77160.924	-6.726	2.112	1.00	0.00	H
	ATOM	1097	1HE	LYS A	77163.401	-7.837	3.337	1.00	0.00	H
	ATOM	1098	2HE	LYS A	77163.412	-7.436	1.619	1.00	0.00	H
5	ATOM	1099	1HZ	LYS A	77163.311	-5.241	2.041	1.00	0.00	H
	ATOM	1100	2HZ	LYS A	77163.976	-5.686	3.531	1.00	0.00	H
	ATOM	1101	3HZ	LYS A	77162.312	-5.416	3.395	1.00	0.00	H
	ATOM	1102	N	LYS A	78156.750	-5.395	4.301	1.00	0.00	N
	ATOM	1103	CA	LYS A	78155.326	-5.284	4.597	1.00	0.00	C
10	ATOM	1104	C	LYS A	78154.793	-3.911	4.198	1.00	0.00	C
	ATOM	1105	O	LYS A	78153.981	-3.318	4.908	1.00	0.00	O
	ATOM	1106	CB	LYS A	78155.074	-5.529	6.086	1.00	0.00	C
	ATOM	1107	CG	LYS A	78155.640	-6.847	6.590	1.00	0.00	C
	ATOM	1108	CD	LYS A	78155.270	-7.094	8.043	1.00	0.00	C
15	ATOM	1109	CE	LYS A	78154.151	-8.116	8.169	1.00	0.00	C
	ATOM	1110	NZ	LYS A	78153.312	-7.875	9.376	1.00	0.00	N
	ATOM	1111	H	LYS A	78157.306	-4.589	4.318	1.00	0.00	H
	ATOM	1112	HA	LYS A	78154.809	-6.038	4.024	1.00	0.00	H
	ATOM	1113	1HB	LYS A	78155.525	-4.728	6.653	1.00	0.00	H
20	ATOM	1114	2HB	LYS A	78154.009	-5.529	6.264	1.00	0.00	H
	ATOM	1115	1HG	LYS A	78155.244	-7.651	5.986	1.00	0.00	H
	ATOM	1116	2HG	LYS A	78156.716	-6.823	6.500	1.00	0.00	H
	ATOM	1117	1HD	LYS A	78156.139	-7.463	8.568	1.00	0.00	H
	ATOM	1118	2HD	LYS A	78154.947	-6.164	8.487	1.00	0.00	H
25	ATOM	1119	1HE	LYS A	78153.526	-8.055	7.291	1.00	0.00	H
	ATOM	1120	2HE	LYS A	78154.586	-9.102	8.234	1.00	0.00	H
	ATOM	1121	1HZ	LYS A	78153.289	-6.859	9.599	1.00	0.00	H
	ATOM	1122	2HZ	LYS A	78153.703	-8.388	10.191	1.00	0.00	H
	ATOM	1123	3HZ	LYS A	78152.341	-8.205	9.207	1.00	0.00	H

	ATOM	1124	N	ALA A	79155.255	-3.413	3.056	1.00	0.00	N
	ATOM	1125	CA	ALA A	79154.824	-2.111	2.561	1.00	0.00	C
	ATOM	1126	C	ALA A	79154.652	-2.129	1.047	1.00	0.00	C
	ATOM	1127	O	ALA A	79155.630	-2.201	0.301	1.00	0.00	O
5	ATOM	1128	CB	ALA A	79155.822	-1.036	2.968	1.00	0.00	C
	ATOM	1129	H	ALA A	79155.901	-3.932	2.534	1.00	0.00	H
	ATOM	1130	HA	ALA A	79153.874	-1.878	3.019	1.00	0.00	H
	ATOM	1131	1HB	ALA A	79155.857	-0.270	2.207	1.00	0.00	H
	ATOM	1132	2HB	ALA A	79156.801	-1.477	3.080	1.00	0.00	H
10	ATOM	1133	3HB	ALA A	79155.515	-0.597	3.906	1.00	0.00	H
	ATOM	1134	N	LEU A	80153.404	-2.063	0.597	1.00	0.00	N
	ATOM	1135	CA	LEU A	80153.103	-2.072	-0.829	1.00	0.00	C
	ATOM	1136	C	LEU A	80152.276	-0.851	-1.218	1.00	0.00	C
	ATOM	1137	O	LEU A	80151.095	-0.756	-0.884	1.00	0.00	O
15	ATOM	1138	CB	LEU A	80152.352	-3.352	-1.205	1.00	0.00	C
	ATOM	1139	CG	LEU A	80151.922	-3.444	-2.670	1.00	0.00	C
	ATOM	1140	CD1	LEU A	80153.135	-3.587	-3.575	1.00	0.00	C
	ATOM	1141	CD2	LEU A	80150.964	-4.609	-2.871	1.00	0.00	C
	ATOM	1142	H	LEU A	80152.667	-2.007	1.240	1.00	0.00	H
20	ATOM	1143	HA	LEU A	80154.039	-2.044	-1.367	1.00	0.00	H
	ATOM	1144	1HB	LEU A	80152.990	-4.195	-0.985	1.00	0.00	H
	ATOM	1145	2HB	LEU A	80151.468	-3.420	-0.589	1.00	0.00	H
	ATOM	1146	HG	LEU A	80151.406	-2.535	-2.944	1.00	0.00	H
	ATOM	1147	1HD1	LEU A	80152.858	-4.131	-4.466	1.00	0.00	H
25	ATOM	1148	2HD1	LEU A	80153.913	-4.124	-3.052	1.00	0.00	H
	ATOM	1149	3HD1	LEU A	80153.497	-2.607	-3.850	1.00	0.00	H
	ATOM	1150	1HD2	LEU A	80151.527	-5.499	-3.113	1.00	0.00	H
	ATOM	1151	2HD2	LEU A	80150.285	-4.382	-3.679	1.00	0.00	H
	ATOM	1152	3HD2	LEU A	80150.403	-4.774	-1.963	1.00	0.00	H

	ATOM	1153	N	PHE A	81152.905	0.081	-1.927	1.00	0.00	N
	ATOM	1154	CA	PHE A	81152.227	1.297	-2.362	1.00	0.00	C
	ATOM	1155	C	PHE A	81151.405	1.041	-3.622	1.00	0.00	C
	ATOM	1156	O	PHE A	81151.884	0.420	-4.571	1.00	0.00	O
5	ATOM	1157	CB	PHE A	81153.246	2.408	-2.621	1.00	0.00	C
	ATOM	1158	CG	PHE A	81153.856	2.967	-1.367	1.00	0.00	C
	ATOM	1159	CD1	PHE A	81153.201	3.948	-0.640	1.00	0.00	C
	ATOM	1160	CD2	PHE A	81155.084	2.511	-0.916	1.00	0.00	C
	ATOM	1161	CE1	PHE A	81153.759	4.463	0.514	1.00	0.00	C
10	ATOM	1162	CE2	PHE A	81155.649	3.023	0.237	1.00	0.00	C
	ATOM	1163	CZ	PHE A	81154.985	4.000	0.953	1.00	0.00	C
	ATOM	1164	H	PHE A	81153.846	-0.052	-2.164	1.00	0.00	H
	ATOM	1165	HA	PHE A	81151.563	1.607	-1.570	1.00	0.00	H
	ATOM	1166	1HB	PHE A	81154.045	2.019	-3.234	1.00	0.00	H
15	ATOM	1167	2HB	PHE A	81152.759	3.218	-3.145	1.00	0.00	H
	ATOM	1168	HD1	PHE A	81152.243	4.310	-0.982	1.00	0.00	H
	ATOM	1169	HD2	PHE A	81155.604	1.747	-1.476	1.00	0.00	H
	ATOM	1170	HE1	PHE A	81153.240	5.228	1.072	1.00	0.00	H
	ATOM	1171	HE2	PHE A	81156.607	2.659	0.578	1.00	0.00	H
20	ATOM	1172	HZ	PHE A	81155.424	4.401	1.854	1.00	0.00	H
	ATOM	1173	N	VAL A	82150.167	1.524	-3.623	1.00	0.00	N
	ATOM	1174	CA	VAL A	82149.280	1.347	-4.765	1.00	0.00	C
	ATOM	1175	C	VAL A	82148.315	2.521	-4.898	1.00	0.00	C
	ATOM	1176	O	VAL A	82148.180	3.332	-3.983	1.00	0.00	O
25	ATOM	1177	CB	VAL A	82148.470	0.042	-4.652	1.00	0.00	C
	ATOM	1178	CG1	VAL A	82149.379	-1.166	-4.809	1.00	0.00	C
	ATOM	1179	CG2	VAL A	82147.724	-0.010	-3.327	1.00	0.00	C
	ATOM	1180	H	VAL A	82149.843	2.010	-2.836	1.00	0.00	H
	ATOM	1181	HA	VAL A	82149.889	1.292	-5.656	1.00	0.00	H

	ATOM	1182	HB	VAL	A	82147.742	0.022	-5.450	1.00	0.00	H
	ATOM	1183	1HG1	VAL	A	82150.018	-1.028	-5.668	1.00	0.00	H
	ATOM	1184	2HG1	VAL	A	82148.779	-2.054	-4.947	1.00	0.00	H
	ATOM	1185	3HG1	VAL	A	82149.987	-1.278	-3.923	1.00	0.00	H
5	ATOM	1186	1HG2	VAL	A	82147.242	-0.971	-3.223	1.00	0.00	H
	ATOM	1187	2HG2	VAL	A	82146.979	0.771	-3.303	1.00	0.00	H
	ATOM	1188	3HG2	VAL	A	82148.422	0.131	-2.515	1.00	0.00	H
	ATOM	1189	N	LYS	A	83147.645	2.602	-6.043	1.00	0.00	N
	ATOM	1190	CA	LYS	A	83146.693	3.677	-6.295	1.00	0.00	C
10	ATOM	1191	C	LYS	A	83145.494	3.573	-5.358	1.00	0.00	C
	ATOM	1192	O	LYS	A	83144.809	2.552	-5.318	1.00	0.00	O
	ATOM	1193	CB	LYS	A	83146.223	3.638	-7.751	1.00	0.00	C
	ATOM	1194	CG	LYS	A	83147.353	3.770	-8.758	1.00	0.00	C
	ATOM	1195	CD	LYS	A	83146.881	3.453	-10.168	1.00	0.00	C
15	ATOM	1196	CE	LYS	A	83147.739	4.151	-11.212	1.00	0.00	C
	ATOM	1197	NZ	LYS	A	83148.766	3.239	-11.787	1.00	0.00	N
	ATOM	1198	H	LYS	A	83147.796	1.924	-6.735	1.00	0.00	H
	ATOM	1199	HA	LYS	A	83147.196	4.615	-6.114	1.00	0.00	H
	ATOM	1200	1HB	LYS	A	83145.717	2.701	-7.929	1.00	0.00	H
20	ATOM	1201	2HB	LYS	A	83145.528	4.449	-7.914	1.00	0.00	H
	ATOM	1202	1HG	LYS	A	83147.728	4.782	-8.734	1.00	0.00	H
	ATOM	1203	2HG	LYS	A	83148.143	3.085	-8.489	1.00	0.00	H
	ATOM	1204	1HD	LYS	A	83146.938	2.386	-10.325	1.00	0.00	H
	ATOM	1205	2HD	LYS	A	83145.858	3.782	-10.277	1.00	0.00	H
25	ATOM	1206	1HE	LYS	A	83147.099	4.504	-12.007	1.00	0.00	H
	ATOM	1207	2HE	LYS	A	83148.234	4.991	-10.749	1.00	0.00	H
	ATOM	1208	1HZ	LYS	A	83148.971	2.466	-11.121	1.00	0.00	H
	ATOM	1209	2HZ	LYS	A	83149.645	3.761	-11.974	1.00	0.00	H
	ATOM	1210	3HZ	LYS	A	83148.422	2.831	-12.680	1.00	0.00	H

	ATOM	1211	N	LEU	A	84145.250	4.640	-4.605	1.00	0.00	N
	ATOM	1212	CA	LEU	A	84144.136	4.675	-3.666	1.00	0.00	C
	ATOM	1213	C	LEU	A	84142.808	4.456	-4.384	1.00	0.00	C
	ATOM	1214	O	LEU	A	84141.894	3.832	-3.844	1.00	0.00	O
5	ATOM	1215	CB	LEU	A	84144.115	6.015	-2.924	1.00	0.00	C
	ATOM	1216	CG	LEU	A	84142.921	6.222	-1.990	1.00	0.00	C
	ATOM	1217	CD1	LEU	A	84143.105	5.434	-0.703	1.00	0.00	C
	ATOM	1218	CD2	LEU	A	84142.732	7.702	-1.689	1.00	0.00	C
	ATOM	1219	H	LEU	A	84145.833	5.423	-4.683	1.00	0.00	H
10	ATOM	1220	HA	LEU	A	84144.280	3.880	-2.950	1.00	0.00	H
	ATOM	1221	1HB	LEU	A	84145.020	6.091	-2.340	1.00	0.00	H
	ATOM	1222	2HB	LEU	A	84144.112	6.807	-3.658	1.00	0.00	H
	ATOM	1223	HG	LEU	A	84142.025	5.863	-2.476	1.00	0.00	H
	ATOM	1224	1HD1	LEU	A	84142.152	5.045	-0.380	1.00	0.00	H
15	ATOM	1225	2HD1	LEU	A	84143.508	6.082	0.061	1.00	0.00	H
	ATOM	1226	3HD1	LEU	A	84143.789	4.616	-0.878	1.00	0.00	H
	ATOM	1227	1HD2	LEU	A	84142.418	8.215	-2.586	1.00	0.00	H
	ATOM	1228	2HD2	LEU	A	84143.667	8.121	-1.345	1.00	0.00	H
	ATOM	1229	3HD2	LEU	A	84141.981	7.821	-0.924	1.00	0.00	H
20	ATOM	1230	N	LYS	A	85142.708	4.971	-5.606	1.00	0.00	N
	ATOM	1231	CA	LYS	A	85141.491	4.830	-6.398	1.00	0.00	C
	ATOM	1232	C	LYS	A	85141.220	3.365	-6.728	1.00	0.00	C
	ATOM	1233	O	LYS	A	85140.075	2.975	-6.956	1.00	0.00	O
	ATOM	1234	CB	LYS	A	85141.602	5.645	-7.688	1.00	0.00	C
25	ATOM	1235	CG	LYS	A	85142.793	5.264	-8.549	1.00	0.00	C
	ATOM	1236	CD	LYS	A	85143.264	6.434	-9.398	1.00	0.00	C
	ATOM	1237	CE	LYS	A	85144.650	6.186	-9.970	1.00	0.00	C
	ATOM	1238	NZ	LYS	A	85145.138	7.346	-10.766	1.00	0.00	N
	ATOM	1239	H	LYS	A	85143.471	5.458	-5.982	1.00	0.00	H

	ATOM	1240	HA	LYS A	85140.670	5.213	-5.811	1.00	0.00	H
	ATOM	1241	1HB	LYS A	85140.702	5.500	-8.269	1.00	0.00	H
	ATOM	1242	2HB	LYS A	85141.690	6.691	-7.433	1.00	0.00	H
	ATOM	1243	1HG	LYS A	85143.602	4.949	-7.909	1.00	0.00	H
5	ATOM	1244	2HG	LYS A	85142.509	4.449	-9.200	1.00	0.00	H
	ATOM	1245	1HD	LYS A	85142.570	6.576	-10.214	1.00	0.00	H
	ATOM	1246	2HD	LYS A	85143.289	7.323	-8.786	1.00	0.00	H
	ATOM	1247	1HE	LYS A	85145.335	6.008	-9.154	1.00	0.00	H
	ATOM	1248	2HE	LYS A	85144.613	5.314	-10.605	1.00	0.00	H
10	ATOM	1249	1HZ	LYS A	85146.175	7.409	-10.708	1.00	0.00	H
	ATOM	1250	2HZ	LYS A	85144.728	8.229	-10.401	1.00	0.00	H
	ATOM	1251	3HZ	LYS A	85144.863	7.236	-11.763	1.00	0.00	H
	ATOM	1252	N	SER A	86142.277	2.559	-6.753	1.00	0.00	N
	ATOM	1253	CA	SER A	86142.146	1.139	-7.057	1.00	0.00	C
15	ATOM	1254	C	SER A	86142.102	0.309	-5.777	1.00	0.00	C
	ATOM	1255	O	SER A	86142.605	-0.814	-5.737	1.00	0.00	O
	ATOM	1256	CB	SER A	86143.308	0.676	-7.938	1.00	0.00	C
	ATOM	1257	OG	SER A	86143.567	1.608	-8.973	1.00	0.00	O
	ATOM	1258	H	SER A	86143.165	2.928	-6.563	1.00	0.00	H
20	ATOM	1259	HA	SER A	86141.220	0.999	-7.594	1.00	0.00	H
	ATOM	1260	1HB	SER A	86144.197	0.572	-7.334	1.00	0.00	H
	ATOM	1261	2HB	SER A	86143.062	-0.278	-8.382	1.00	0.00	H
	ATOM	1262	HG	SER A	86143.066	1.365	-9.755	1.00	0.00	H
	ATOM	1263	N	CYS A	87141.498	0.868	-4.734	1.00	0.00	N
25	ATOM	1264	CA	CYS A	87141.387	0.180	-3.453	1.00	0.00	C
	ATOM	1265	C	CYS A	87139.928	-0.097	-3.109	1.00	0.00	C
	ATOM	1266	O	CYS A	87139.021	0.538	-3.648	1.00	0.00	O
	ATOM	1267	CB	CYS A	87142.036	1.012	-2.345	1.00	0.00	C
	ATOM	1268	SG	CYS A	87143.843	1.034	-2.401	1.00	0.00	S

	ATOM	1269	H	CYS A	87141.116	1.766	-4.828	1.00	0.00	H
	ATOM	1270	HA	CYS A	87141.910	-0.761	-3.537	1.00	0.00	H
	ATOM	1271	1HB	CYS A	87141.693	2.032	-2.424	1.00	0.00	H
	ATOM	1272	2HB	CYS A	87141.740	0.613	-1.386	1.00	0.00	H
5	ATOM	1273	HG	CYS A	87144.122	0.522	-3.164	1.00	0.00	H
	ATOM	1274	N	ARG A	88139.706	-1.049	-2.208	1.00	0.00	N
	ATOM	1275	CA	ARG A	88138.356	-1.408	-1.793	1.00	0.00	C
	ATOM	1276	C	ARG A	88138.267	-1.531	-0.272	1.00	0.00	C
	ATOM	1277	O	ARG A	88139.211	-1.983	0.376	1.00	0.00	O
10	ATOM	1278	CB	ARG A	88137.932	-2.723	-2.448	1.00	0.00	C
	ATOM	1279	CG	ARG A	88137.230	-2.538	-3.784	1.00	0.00	C
	ATOM	1280	CD	ARG A	88135.718	-2.566	-3.627	1.00	0.00	C
	ATOM	1281	NE	ARG A	88135.059	-3.157	-4.789	1.00	0.00	N
	ATOM	1282	CZ	ARG A	88135.003	-2.577	-5.985	1.00	0.00	C
15	ATOM	1283	NH1	ARG A	88135.566	-1.391	-6.183	1.00	0.00	N
	ATOM	1284	NH2	ARG A	88134.382	-3.184	-6.987	1.00	0.00	N
	ATOM	1285	H	ARG A	88140.470	-1.520	-1.812	1.00	0.00	H
	ATOM	1286	HA	ARG A	88137.691	-0.623	-2.119	1.00	0.00	H
	ATOM	1287	1HB	ARG A	88138.810	-3.332	-2.608	1.00	0.00	H
20	ATOM	1288	2HB	ARG A	88137.260	-3.244	-1.782	1.00	0.00	H
	ATOM	1289	1HG	ARG A	88137.521	-1.587	-4.204	1.00	0.00	H
	ATOM	1290	2HG	ARG A	88137.529	-3.335	-4.449	1.00	0.00	H
	ATOM	1291	1HD	ARG A	88135.471	-3.146	-2.750	1.00	0.00	H
	ATOM	1292	2HD	ARG A	88135.364	-1.553	-3.501	1.00	0.00	H
25	ATOM	1293	HE	ARG A	88134.634	-4.033	-4.672	1.00	0.00	H
	ATOM	1294	1HH1	ARG A	88136.035	-0.928	-5.431	1.00	0.00	H
	ATOM	1295	2HH1	ARG A	88135.520	-0.961	-7.084	1.00	0.00	H
	ATOM	1296	1HH2	ARG A	88133.956	-4.077	-6.844	1.00	0.00	H
	ATOM	1297	2HH2	ARG A	88134.340	-2.748	-7.887	1.00	0.00	H



	ATOM	1298	N	PRO A	89137.126	-1.131	0.319	1.00	0.00	N
	ATOM	1299	CA	PRO A	89136.924	-1.201	1.769	1.00	0.00	C
	ATOM	1300	C	PRO A	89137.168	-2.603	2.320	1.00	0.00	C
	ATOM	1301	O	PRO A	89136.530	-3.566	1.898	1.00	0.00	O
5	ATOM	1302	CB	PRO A	89135.455	-0.807	1.948	1.00	0.00	C
	ATOM	1303	CG	PRO A	89135.126	-0.003	0.740	1.00	0.00	C
	ATOM	1304	CD	PRO A	89135.949	-0.581	-0.377	1.00	0.00	C
	ATOM	1305	HA	PRO A	89137.555	-0.497	2.291	1.00	0.00	H
	ATOM	1306	1HB	PRO A	89134.846	-1.698	2.009	1.00	0.00	H
10	ATOM	1307	2HB	PRO A	89135.343	-0.225	2.851	1.00	0.00	H
	ATOM	1308	1HG	PRO A	89134.074	-0.091	0.515	1.00	0.00	H
	ATOM	1309	2HG	PRO A	89135.390	1.031	0.903	1.00	0.00	H
	ATOM	1310	1HD	PRO A	89135.401	-1.361	-0.886	1.00	0.00	H
	ATOM	1311	2HD	PRO A	89136.239	0.195	-1.072	1.00	0.00	H
15	ATOM	1312	N	ASP A	90138.095	-2.707	3.267	1.00	0.00	N
	ATOM	1313	CA	ASP A	90138.422	-3.991	3.877	1.00	0.00	C
	ATOM	1314	C	ASP A	90137.795	-4.110	5.262	1.00	0.00	C
	ATOM	1315	O	ASP A	90138.296	-3.540	6.232	1.00	0.00	O
	ATOM	1316	CB	ASP A	90139.940	-4.160	3.977	1.00	0.00	C
20	ATOM	1317	CG	ASP A	90140.365	-5.614	3.896	1.00	0.00	C
	ATOM	1318	OD1	ASP A	90139.547	-6.492	4.244	1.00	0.00	O
	ATOM	1319	OD2	ASP A	90141.516	-5.873	3.485	1.00	0.00	O
	ATOM	1320	H	ASP A	90138.570	-1.902	3.563	1.00	0.00	H
	ATOM	1321	HA	ASP A	90138.023	-4.769	3.245	1.00	0.00	H
25	ATOM	1322	1HB	ASP A	90140.410	-3.622	3.168	1.00	0.00	H
	ATOM	1323	2HB	ASP A	90140.279	-3.756	4.919	1.00	0.00	H
	ATOM	1324	N	SER A	91136.695	-4.850	5.346	1.00	0.00	N
	ATOM	1325	CA	SER A	91135.997	-5.042	6.613	1.00	0.00	C
	ATOM	1326	C	SER A	91136.378	-6.376	7.247	1.00	0.00	C

	ATOM	1327	O	SER A	91135.575	-6.993	7.947	1.00	0.00	O
	ATOM	1328	CB	SER A	91134.485	-4.978	6.401	1.00	0.00	C
	ATOM	1329	OG	SER A	91133.828	-4.483	7.554	1.00	0.00	O
	ATOM	1330	H	SER A	91136.343	-5.278	4.537	1.00	0.00	H
5	ATOM	1331	HA	SER A	91136.293	-4.243	7.277	1.00	0.00	H
	ATOM	1332	1HB	SER A	91134.267	-4.326	5.569	1.00	0.00	H
	ATOM	1333	2HB	SER A	91134.112	-5.970	6.187	1.00	0.00	H
	ATOM	1334	HG	SER A	91133.100	-5.065	7.784	1.00	0.00	H
	ATOM	1335	N	ARG A	92137.608	-6.815	6.999	1.00	0.00	N
10	ATOM	1336	CA	ARG A	92138.093	-8.076	7.546	1.00	0.00	C
	ATOM	1337	C	ARG A	92138.164	-8.018	9.069	1.00	0.00	C
	ATOM	1338	O	ARG A	92137.993	-9.030	9.748	1.00	0.00	O
	ATOM	1339	CB	ARG A	92139.471	-8.409	6.972	1.00	0.00	C
	ATOM	1340	CG	ARG A	92139.416	-9.230	5.695	1.00	0.00	C
15	ATOM	1341	CD	ARG A	92139.022	-10.671	5.976	1.00	0.00	C
	ATOM	1342	NE	ARG A	92137.589	-10.891	5.797	1.00	0.00	N
	ATOM	1343	CZ	ARG A	92137.005	-11.048	4.612	1.00	0.00	C
	ATOM	1344	NH1	ARG A	92137.727	-11.011	3.498	1.00	0.00	N
	ATOM	1345	NH2	ARG A	92135.696	-11.243	4.538	1.00	0.00	N
20	ATOM	1346	H	ARG A	92138.202	-6.278	6.434	1.00	0.00	H
	ATOM	1347	HA	ARG A	92137.398	-8.851	7.260	1.00	0.00	H
	ATOM	1348	1HB	ARG A	92139.992	-7.486	6.760	1.00	0.00	H
	ATOM	1349	2HB	ARG A	92140.030	-8.966	7.709	1.00	0.00	H
	ATOM	1350	1HG	ARG A	92138.688	-8.792	5.028	1.00	0.00	H
25	ATOM	1351	2HG	ARG A	92140.390	-9.216	5.227	1.00	0.00	H
	ATOM	1352	1HD	ARG A	92139.562	-11.318	5.300	1.00	0.00	H
	ATOM	1353	2HD	ARG A	92139.290	-10.912	6.994	1.00	0.00	H
	ATOM	1354	HE	ARG A	92137.032	-10.923	6.603	1.00	0.00	H
	ATOM	1355	1HH1	ARG A	92138.714	-10.864	3.546	1.00	0.00	H

	ATOM	1356	2HH1	ARG	A	92137.282	-11.130	2.611	1.00	0.00	H
	ATOM	1357	1HH2	ARG	A	92135.147	-11.273	5.374	1.00	0.00	H
	ATOM	1358	2HH2	ARG	A	92135.256	-11.362	3.648	1.00	0.00	H
	ATOM	1359	N	PHE	A	93138.419	-6.825	9.599	1.00	0.00	N
5	ATOM	1360	CA	PHE	A	93138.513	-6.636	11.042	1.00	0.00	C
	ATOM	1361	C	PHE	A	93137.293	-5.889	11.574	1.00	0.00	C
	ATOM	1362	O	PHE	A	93137.385	-5.153	12.557	1.00	0.00	O
	ATOM	1363	CB	PHE	A	93139.788	-5.868	11.393	1.00	0.00	C
	ATOM	1364	CG	PHE	A	93141.045	-6.662	11.179	1.00	0.00	C
10	ATOM	1365	CD1	PHE	A	93141.370	-7.144	9.921	1.00	0.00	C
	ATOM	1366	CD2	PHE	A	93141.902	-6.927	12.236	1.00	0.00	C
	ATOM	1367	CE1	PHE	A	93142.526	-7.875	9.721	1.00	0.00	C
	ATOM	1368	CE2	PHE	A	93143.059	-7.658	12.041	1.00	0.00	C
	ATOM	1369	CZ	PHE	A	93143.371	-8.132	10.782	1.00	0.00	C
15	ATOM	1370	H	PHE	A	93138.546	-6.056	9.006	1.00	0.00	H
	ATOM	1371	HA	PHE	A	93138.552	-7.611	11.502	1.00	0.00	H
	ATOM	1372	1HB	PHE	A	93139.848	-4.982	10.780	1.00	0.00	H
	ATOM	1373	2HB	PHE	A	93139.751	-5.578	12.433	1.00	0.00	H
	ATOM	1374	HD1	PHE	A	93140.710	-6.943	9.090	1.00	0.00	H
20	ATOM	1375	HD2	PHE	A	93141.658	-6.557	13.220	1.00	0.00	H
	ATOM	1376	HE1	PHE	A	93142.768	-8.246	8.735	1.00	0.00	H
	ATOM	1377	HE2	PHE	A	93143.718	-7.857	12.873	1.00	0.00	H
	ATOM	1378	HZ	PHE	A	93144.275	-8.704	10.629	1.00	0.00	H
	ATOM	1379	N	ALA	A	94136.153	-6.084	10.920	1.00	0.00	N
25	ATOM	1380	CA	ALA	A	94134.917	-5.429	11.329	1.00	0.00	C
	ATOM	1381	C	ALA	A	94134.552	-5.791	12.766	1.00	0.00	C
	ATOM	1382	O	ALA	A	94134.390	-6.965	13.099	1.00	0.00	O
	ATOM	1383	CB	ALA	A	94133.784	-5.803	10.384	1.00	0.00	C
	ATOM	1384	H	ALA	A	94136.142	-6.682	10.143	1.00	0.00	H

	ATOM	1385	HA	ALA A	94135.069	-4.361	11.267	1.00	0.00	H
	ATOM	1386	1HB	ALA A	94134.071	-6.665	9.802	1.00	0.00	H
	ATOM	1387	2HB	ALA A	94133.579	-4.974	9.722	1.00	0.00	H
	ATOM	1388	3HB	ALA A	94132.897	-6.034	10.956	1.00	0.00	H
5	ATOM	1389	N	SER A	95134.426	-4.775	13.614	1.00	0.00	N
	ATOM	1390	CA	SER A	95134.082	-4.987	15.014	1.00	0.00	C
	ATOM	1391	C	SER A	95132.642	-4.567	15.290	1.00	0.00	C
	ATOM	1392	O	SER A	95132.089	-3.714	14.596	1.00	0.00	O
	ATOM	1393	CB	SER A	95135.036	-4.205	15.920	1.00	0.00	C
10	ATOM	1394	OG	SER A	95136.145	-5.000	16.300	1.00	0.00	O
	ATOM	1395	H	SER A	95134.568	-3.861	13.289	1.00	0.00	H
	ATOM	1396	HA	SER A	95134.184	-6.041	15.225	1.00	0.00	H
	ATOM	1397	1HB	SER A	95135.397	-3.335	15.392	1.00	0.00	H
	ATOM	1398	2HB	SER A	95134.509	-3.893	16.809	1.00	0.00	H
15	ATOM	1399	HG	SER A	95136.483	-5.467	15.533	1.00	0.00	H
	ATOM	1400	N	LEU A	96132.039	-5.172	16.308	1.00	0.00	N
	ATOM	1401	CA	LEU A	96130.663	-4.861	16.676	1.00	0.00	C
	ATOM	1402	C	LEU A	96130.285	-5.533	17.992	1.00	0.00	C
	ATOM	1403	O	LEU A	96129.953	-6.718	18.023	1.00	0.00	O
20	ATOM	1404	CB	LEU A	96129.704	-5.307	15.570	1.00	0.00	C
	ATOM	1405	CG	LEU A	96128.495	-4.395	15.355	1.00	0.00	C
	ATOM	1406	CD1	LEU A	96127.882	-4.636	13.984	1.00	0.00	C
	ATOM	1407	CD2	LEU A	96127.462	-4.613	16.450	1.00	0.00	C
	ATOM	1408	H	LEU A	96132.531	-5.845	16.825	1.00	0.00	H
25	ATOM	1409	HA	LEU A	96130.586	-3.792	16.797	1.00	0.00	H
	ATOM	1410	1HB	LEU A	96130.258	-5.361	14.644	1.00	0.00	H
	ATOM	1411	2HB	LEU A	96129.341	-6.295	15.812	1.00	0.00	H
	ATOM	1412	HG	LEU A	96128.817	-3.364	15.399	1.00	0.00	H
	ATOM	1413	1HD1	LEU A	96128.625	-5.066	13.328	1.00	0.00	H

	ATOM	1414	2HD1	LEU	A	96127.538	-3.698	13.573	1.00	0.00	H
	ATOM	1415	3HD1	LEU	A	96127.048	-5.315	14.077	1.00	0.00	H
	ATOM	1416	1HD2	LEU	A	96127.130	-5.641	16.431	1.00	0.00	H
	ATOM	1417	2HD2	LEU	A	96126.618	-3.960	16.283	1.00	0.00	H
5	ATOM	1418	3HD2	LEU	A	96127.903	-4.395	17.410	1.00	0.00	H
	ATOM	1419	N	GLN	A	97130.339	-4.769	19.079	1.00	0.00	N
	ATOM	1420	CA	GLN	A	97130.002	-5.290	20.398	1.00	0.00	C
	ATOM	1421	C	GLN	A	97130.929	-6.442	20.781	1.00	0.00	C
	ATOM	1422	O	GLN	A	97131.595	-7.024	19.925	1.00	0.00	O
10	ATOM	1423	CB	GLN	A	97128.547	-5.759	20.427	1.00	0.00	C
	ATOM	1424	CG	GLN	A	97127.566	-4.676	20.847	1.00	0.00	C
	ATOM	1425	CD	GLN	A	97126.204	-4.841	20.203	1.00	0.00	C
	ATOM	1426	OE1	GLN	A	97126.054	-4.681	18.992	1.00	0.00	O
	ATOM	1427	NE2	GLN	A	97125.201	-5.162	21.013	1.00	0.00	N
15	ATOM	1428	H	GLN	A	97130.611	-3.831	18.990	1.00	0.00	H
	ATOM	1429	HA	GLN	A	97130.127	-4.490	21.112	1.00	0.00	H
	ATOM	1430	1HB	GLN	A	97128.271	-6.100	19.441	1.00	0.00	H
	ATOM	1431	2HB	GLN	A	97128.459	-6.583	21.121	1.00	0.00	H
	ATOM	1432	1HG	GLN	A	97127.447	-4.713	21.920	1.00	0.00	H
20	ATOM	1433	2HG	GLN	A	97127.970	-3.714	20.564	1.00	0.00	H
	ATOM	1434	1HE2	GLN	A	97125.395	-5.274	21.967	1.00	0.00	H
	ATOM	1435	2HE2	GLN	A	97124.310	-5.275	20.622	1.00	0.00	H
	ATOM	1436	N	PRO	A	98130.983	-6.785	22.080	1.00	0.00	N
	ATOM	1437	CA	PRO	A	98131.833	-7.874	22.573	1.00	0.00	C
25	ATOM	1438	C	PRO	A	98131.336	-9.245	22.127	1.00	0.00	C
	ATOM	1439	O	PRO	A	98130.179	-9.599	22.350	1.00	0.00	O
	ATOM	1440	CB	PRO	A	98131.737	-7.739	24.095	1.00	0.00	C
	ATOM	1441	CG	PRO	A	98130.430	-7.067	24.333	1.00	0.00	C
	ATOM	1442	CD	PRO	A	98130.221	-6.142	23.166	1.00	0.00	C

	ATOM	1443	HA	PRO A	98132.859	-7.746	22.261	1.00	0.00	H
	ATOM	1444	1HB	PRO A	98131.767	-8.720	24.548	1.00	0.00	H
	ATOM	1445	2HB	PRO A	98132.560	-7.142	24.459	1.00	0.00	H
	ATOM	1446	1HG	PRO A	98129.641	-7.804	24.375	1.00	0.00	H
5	ATOM	1447	2HG	PRO A	98130.469	-6.504	25.254	1.00	0.00	H
	ATOM	1448	1HD	PRO A	98129.171	-6.080	22.917	1.00	0.00	H
	ATOM	1449	2HD	PRO A	98130.617	-5.162	23.386	1.00	0.00	H
	ATOM	1450	N	SER A	99132.218	-10.012	21.495	1.00	0.00	N
	ATOM	1451	CA	SER A	99131.868	-11.344	21.017	1.00	0.00	C
10	ATOM	1452	C	SER A	99132.957	-12.352	21.371	1.00	0.00	C
	ATOM	1453	O	SER A	99132.687	-13.383	21.987	1.00	0.00	O
	ATOM	1454	CB	SER A	99131.648	-11.324	19.503	1.00	0.00	C
	ATOM	1455	OG	SER A	99132.444	-10.328	18.884	1.00	0.00	O
	ATOM	1456	H	SER A	99133.126	-9.673	21.346	1.00	0.00	H
15	ATOM	1457	HA	SER A	99130.950	-11.639	21.502	1.00	0.00	H
	ATOM	1458	1HB	SER A	99131.914	-12.287	19.091	1.00	0.00	H
	ATOM	1459	2HB	SER A	99130.608	-11.119	19.296	1.00	0.00	H
	ATOM	1460	HG	SER A	99131.881	-9.611	18.582	1.00	0.00	H
	ATOM	1461	N	GLY A	100134.190	-12.047	20.978	1.00	0.00	N
20	ATOM	1462	CA	GLY A	100135.300	-12.936	21.263	1.00	0.00	C
	ATOM	1463	C	GLY A	100135.839	-12.759	22.670	1.00	0.00	C
	ATOM	1464	O	GLY A	100135.168	-12.182	23.525	1.00	0.00	O
	ATOM	1465	H	GLY A	100134.346	-11.212	20.491	1.00	0.00	H
	ATOM	1466	1HA	GLY A	100134.970	-13.957	21.141	1.00	0.00	H
25	ATOM	1467	2HA	GLY A	100136.095	-12.740	20.557	1.00	0.00	H
	ATOM	1468	N	PRO A	101137.062	-13.248	22.942	1.00	0.00	N
	ATOM	1469	CA	PRO A	101137.680	-13.133	24.267	1.00	0.00	C
	ATOM	1470	C	PRO A	101138.074	-11.697	24.600	1.00	0.00	C
	ATOM	1471	O	PRO A	101137.812	-11.210	25.698	1.00	0.00	O

	ATOM	1472	CB	PRO	A	101138.926	-14.015	24.156	1.00	0.00	C
	ATOM	1473	CG	PRO	A	101139.252	-14.029	22.703	1.00	0.00	C
	ATOM	1474	CD	PRO	A	101137.934	-13.949	21.982	1.00	0.00	C
	ATOM	1475	HA	PRO	A	101137.032	-13.516	25.041	1.00	0.00	H
5	ATOM	1476	1HB	PRO	A	101139.728	-13.586	24.738	1.00	0.00	H
	ATOM	1477	2HB	PRO	A	101138.701	-15.007	24.519	1.00	0.00	H
	ATOM	1478	1HG	PRO	A	101139.867	-13.176	22.456	1.00	0.00	H
	ATOM	1479	2HG	PRO	A	101139.762	-14.947	22.450	1.00	0.00	H
	ATOM	1480	1HD	PRO	A	101138.037	-13.382	21.069	1.00	0.00	H
10	ATOM	1481	2HD	PRO	A	101137.558	-14.940	21.773	1.00	0.00	H
	ATOM	1482	N	SER	A	102138.704	-11.024	23.642	1.00	0.00	N
	ATOM	1483	CA	SER	A	102139.133	-9.644	23.833	1.00	0.00	C
	ATOM	1484	C	SER	A	102139.033	-8.858	22.530	1.00	0.00	C
	ATOM	1485	O	SER	A	102140.038	-8.608	21.865	1.00	0.00	O
15	ATOM	1486	CB	SER	A	102140.569	-9.602	24.359	1.00	0.00	C
	ATOM	1487	OG	SER	A	102140.652	-10.160	25.659	1.00	0.00	O
	ATOM	1488	H	SER	A	102138.885	-11.467	22.786	1.00	0.00	H
	ATOM	1489	HA	SER	A	102138.479	-9.192	24.564	1.00	0.00	H
	ATOM	1490	1HB	SER	A	102141.209	-10.168	23.699	1.00	0.00	H
20	ATOM	1491	2HB	SER	A	102140.907	-8.577	24.398	1.00	0.00	H
	ATOM	1492	HG	SER	A	102140.083	-9.667	26.256	1.00	0.00	H
	ATOM	1493	N	SER	A	103137.813	-8.469	22.171	1.00	0.00	N
	ATOM	1494	CA	SER	A	103137.575	-7.710	20.947	1.00	0.00	C
	ATOM	1495	C	SER	A	103137.853	-8.562	19.712	1.00	0.00	C
25	ATOM	1496	O	SER	A	103136.932	-8.955	18.997	1.00	0.00	O
	ATOM	1497	CB	SER	A	103138.444	-6.450	20.921	1.00	0.00	C
	ATOM	1498	OG	SER	A	103137.703	-5.328	20.472	1.00	0.00	O
	ATOM	1499	H	SER	A	103137.051	-8.699	22.744	1.00	0.00	H
	ATOM	1500	HA	SER	A	103136.535	-7.417	20.938	1.00	0.00	H

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ATOM 1501 1HB SER A 103138.809 -6.246 21.917 1.00 0.00 H  
ATOM 1502 2HB SER A 103139.280 -6.603 20.256 1.00 0.00 H  
ATOM 1503 HG SER A 103137.240 -5.554 19.662 1.00 0.00 H  
ATOM 1504 N GLY A 104139.130 -8.843 19.468 1.00 0.00 N  
5 ATOM 1505 CA GLY A 104139.505 -9.647 18.319 1.00 0.00 C  
ATOM 1506 C GLY A 104140.109 -8.818 17.205 1.00 0.00 C  
ATOM 1507 O GLY A 104141.142 -8.158 17.448 1.00 0.00 O  
ATOM 1508 OXT GLY A 104139.552 -8.828 16.087 1.00 0.00 O  
ATOM 1509 H GLY A 104139.822 -8.504 20.073 1.00 0.00 H  
10 ATOM 1510 1HA GLY A 104140.225 -10.388 18.633 1.00 0.00 H  
ATOM 1511 2HA GLY A 104138.626 -10.150 17.943 1.00 0.00 H  
TER 1512 GLY A 104  
ENDMDL

## 15 立体構造座標表 3

ATOM 1 N GLY A 1125.212 27.334 -8.433 1.00 0.00 N  
ATOM 2 CA GLY A 1126.127 26.226 -8.041 1.00 0.00 C  
ATOM 3 C GLY A 1126.734 25.523 -9.238 1.00 0.00 C  
ATOM 4 O GLY A 1126.538 24.322 -9.426 1.00 0.00 O  
20 ATOM 5 1H GLY A 1125.466 27.688 -9.377 1.00 0.00 H  
ATOM 6 2H GLY A 1125.283 28.114 -7.751 1.00 0.00 H  
ATOM 7 3H GLY A 1124.229 26.994 -8.455 1.00 0.00 H  
ATOM 8 1HA GLY A 1126.923 26.630 -7.432 1.00 0.00 H  
ATOM 9 2HA GLY A 1125.572 25.506 -7.457 1.00 0.00 H  
25 ATOM10 N SER A 2127.472 26.272 -10.049 1.00 0.00 N  
ATOM11 CA SER A 2128.110 25.713 -11.236 1.00 0.00 C  
ATOM12 C SER A 2129.203 24.723 -10.851 1.00 0.00 C  
ATOM13 O SER A 2129.120 23.536 -11.169 1.00 0.00 O  
ATOM14 CB SER A 2128.700 26.831 -12.098 1.00 0.00 C



	ATOM15	OG	SER A	2127.762	27.284	-13.059	1.00	0.00	O
	ATOM16	H	SER A	2127.592	27.223	-9.846	1.00	0.00	H
	ATOM17	HA	SER A	2127.354	25.193	-11.805	1.00	0.00	H
	ATOM18	1HB	SER A	2128.978	27.662	-11.466	1.00	0.00	H
5	ATOM19	2HB	SER A	2129.575	26.461	-12.613	1.00	0.00	H
	ATOM20	HG	SER A	2127.770	28.243	-13.087	1.00	0.00	H
	ATOM21	N	SER A	3130.228	25.217	-10.164	1.00	0.00	N
	ATOM22	CA	SER A	3131.338	24.374	-9.734	1.00	0.00	C
	ATOM23	C	SER A	3130.855	23.274	-8.795	1.00	0.00	C
10	ATOM24	O	SER A	3130.082	23.528	-7.871	1.00	0.00	O
	ATOM25	CB	SER A	3132.408	25.220	-9.040	1.00	0.00	C
	ATOM26	OG	SER A	3132.727	26.369	-9.806	1.00	0.00	O
	ATOM27	H	SER A	3130.237	26.171	-9.939	1.00	0.00	H
	ATOM28	HA	SER A	3131.767	23.918	-10.613	1.00	0.00	H
15	ATOM29	1HB	SER A	3132.043	25.537	-8.075	1.00	0.00	H
	ATOM30	2HB	SER A	3133.302	24.629	-8.910	1.00	0.00	H
	ATOM31	HG	SER A	3132.091	27.063	-9.621	1.00	0.00	H
	ATOM32	N	GLY A	4131.315	22.051	-9.038	1.00	0.00	N
	ATOM33	CA	GLY A	4130.919	20.931	-8.206	1.00	0.00	C
20	ATOM34	C	GLY A	4130.532	19.711	-9.020	1.00	0.00	C
	ATOM35	O	GLY A	4129.678	19.791	-9.902	1.00	0.00	O
	ATOM36	H	GLY A	4131.929	21.908	-9.789	1.00	0.00	H
	ATOM37	1HA	GLY A	4131.742	20.670	-7.557	1.00	0.00	H
	ATOM38	2HA	GLY A	4130.076	21.227	-7.599	1.00	0.00	H
25	ATOM39	N	SER A	5131.165	18.580	-8.724	1.00	0.00	N
	ATOM40	CA	SER A	5130.883	17.339	-9.436	1.00	0.00	C
	ATOM41	C	SER A	5129.775	16.553	-8.741	1.00	0.00	C
	ATOM42	O	SER A	5129.529	16.730	-7.548	1.00	0.00	O
	ATOM43	CB	SER A	5132.147	16.483	-9.532	1.00	0.00	C

	ATOM44	OG	SER A	5132.417	15.830	-8.304	1.00	0.00	O
	ATOM45	H	SER A	5131.837	18.580	-8.011	1.00	0.00	H
	ATOM46	HA	SER A	5130.555	17.595	-10.432	1.00	0.00	H
	ATOM47	1HB	SER A	5132.015	15.736	-10.300	1.00	0.00	H
5	ATOM48	2HB	SER A	5132.987	17.113	-9.784	1.00	0.00	H
	ATOM49	HG	SER A	5132.762	14.951	-8.477	1.00	0.00	H
	ATOM50	N	SER A	6129.109	15.685	-9.496	1.00	0.00	N
	ATOM51	CA	SER A	6128.028	14.872	-8.952	1.00	0.00	C
	ATOM52	C	SER A	6128.579	13.712	-8.129	1.00	0.00	C
10	ATOM53	O	SER A	6129.231	12.814	-8.662	1.00	0.00	O
	ATOM54	CB	SER A	6127.146	14.337	-10.081	1.00	0.00	C
	ATOM55	OG	SER A	6126.755	15.378	-10.960	1.00	0.00	O
	ATOM56	H	SER A	6129.352	15.588	-10.440	1.00	0.00	H
	ATOM57	HA	SER A	6127.431	15.502	-8.309	1.00	0.00	H
15	ATOM58	1HB	SER A	6127.695	13.597	-10.644	1.00	0.00	H
	ATOM59	2HB	SER A	6126.260	13.885	-9.661	1.00	0.00	H
	ATOM60	HG	SER A	6127.535	15.778	-11.351	1.00	0.00	H
	ATOM61	N	GLY A	7128.313	13.737	-6.827	1.00	0.00	N
	ATOM62	CA	GLY A	7128.790	12.683	-5.952	1.00	0.00	C
20	ATOM63	C	GLY A	7127.664	11.816	-5.421	1.00	0.00	C
	ATOM64	O	GLY A	7127.124	12.079	-4.346	1.00	0.00	O
	ATOM65	H	GLY A	7127.788	14.478	-6.458	1.00	0.00	H
	ATOM66	1HA	GLY A	7129.481	12.060	-6.499	1.00	0.00	H
	ATOM67	2HA	GLY A	7129.308	13.130	-5.116	1.00	0.00	H
25	ATOM68	N	LEU A	8127.309	10.783	-6.177	1.00	0.00	N
	ATOM69	CA	LEU A	8126.240	9.875	-5.777	1.00	0.00	C
	ATOM70	C	LEU A	8126.566	9.201	-4.447	1.00	0.00	C
	ATOM71	O	LEU A	8125.679	8.948	-3.633	1.00	0.00	O
	ATOM72	CB	LEU A	8126.012	8.815	-6.857	1.00	0.00	C

	ATOM73	CG	LEU	A	8125.799	9.364	-8.267	1.00	0.00	C	
	ATOM74	CD1	LEU	A	8126.357	8.401	-9.305	1.00	0.00	C	
	ATOM75	CD2	LEU	A	8124.323	9.626	-8.520	1.00	0.00	C	
	ATOM76	H	LEU	A	8127.778	10.626	-7.023	1.00	0.00	H	
5	ATOM77	HA	LEU	A	8125.338	10.456	-5.659	1.00	0.00	H	
	ATOM78	1HB	LEU	A	8126.869	8.158	-6.872	1.00	0.00	H	
	ATOM79	2HB	LEU	A	8125.141	8.237	-6.585	1.00	0.00	H	
	ATOM80	HG	LEU	A	8126.328	10.302	-8.366	1.00	0.00	H	
	ATOM81	1HD1	LEU	A	8125.688	7.560	-9.412	1.00	0.00	H	
10	ATOM82	2HD1	LEU	A	8127.328	8.051	-8.985	1.00	0.00	H	
	ATOM83	3HD1	LEU	A	8126.453	8.909	-10.253	1.00	0.00	H	
	ATOM84	1HD2	LEU	A	8124.119	9.548	-9.578	1.00	0.00	H	
	ATOM85	2HD2	LEU	A	8124.069	10.618	-8.177	1.00	0.00	H	
	ATOM86	3HD2	LEU	A	8123.731	8.897	-7.986	1.00	0.00	H	
15	ATOM87	N	ALA	A	9127.846	8.913	-4.236	1.00	0.00	N	
	ATOM88	CA	ALA	A	9128.291	8.269	-3.007	1.00	0.00	C	
	ATOM89	C	ALA	A	9129.810	8.310	-2.884	1.00	0.00	C	
	ATOM90	O	ALA	A	9130.425	7.393	-2.339	1.00	0.00	O	
	ATOM91	CB	ALA	A	9127.794	6.833	-2.955	1.00	0.00	C	
20	ATOM92	H	ALA	A	9128.507	9.141	-4.924	1.00	0.00	H	
	ATOM93	HA	ALA	A	9127.858	8.805	-2.175	1.00	0.00	H	
	ATOM94	1HB	ALA	A	9128.506	6.225	-2.415	1.00	0.00	H	
	ATOM95	2HB	ALA	A	9127.686	6.452	-3.960	1.00	0.00	H	
	ATOM96	3HB	ALA	A	9126.839	6.800	-2.452	1.00	0.00	H	
25	ATOM97	N	MET	A	10130.412	9.381	-3.394	1.00	0.00	N	
	ATOM98	CA	MET	A	10131.861	9.542	-3.341	1.00	0.00	C	
	ATOM99	C	MET	A	10132.281	10.879	-3.949	1.00	0.00	C	
	ATOM	100	O	MET	A	10132.849	10.924	-5.041	1.00	0.00	O
	ATOM	101	CB	MET	A	10132.550	8.392	-4.080	1.00	0.00	C

	ATOM	102	CG	MET A	10131.913	8.058	-5.419	1.00	0.00	C
	ATOM	103	SD	MET A	10132.616	6.579	-6.173	1.00	0.00	S
	ATOM	104	CE	MET A	10132.892	7.152	-7.847	1.00	0.00	C
	ATOM	105	H	MET A	10129.868	10.079	-3.816	1.00	0.00	H
5	ATOM	106	HA	MET A	10132.159	9.522	-2.304	1.00	0.00	H
	ATOM	107	1HB	MET A	10133.582	8.658	-4.253	1.00	0.00	H
	ATOM	108	2HB	MET A	10132.515	7.509	-3.459	1.00	0.00	H
	ATOM	109	1HG	MET A	10130.855	7.900	-5.270	1.00	0.00	H
	ATOM	110	2HG	MET A	10132.060	8.892	-6.089	1.00	0.00	H
10	ATOM	111	1HE	MET A	10133.578	7.985	-7.834	1.00	0.00	H
	ATOM	112	2HE	MET A	10131.954	7.464	-8.281	1.00	0.00	H
	ATOM	113	3HE	MET A	10133.312	6.350	-8.437	1.00	0.00	H
	ATOM	114	N	PRO A	11132.008	11.991	-3.245	1.00	0.00	N
	ATOM	115	CA	PRO A	11132.361	13.332	-3.719	1.00	0.00	C
15	ATOM	116	C	PRO A	11133.857	13.483	-3.993	1.00	0.00	C
	ATOM	117	O	PRO A	11134.251	14.000	-5.038	1.00	0.00	O
	ATOM	118	CB	PRO A	11131.929	14.253	-2.573	1.00	0.00	C
	ATOM	119	CG	PRO A	11130.928	13.466	-1.798	1.00	0.00	C
	ATOM	120	CD	PRO A	11131.334	12.027	-1.935	1.00	0.00	C
20	ATOM	121	HA	PRO A	11131.811	13.588	-4.613	1.00	0.00	H
	ATOM	122	1HB	PRO A	11132.788	14.507	-1.969	1.00	0.00	H
	ATOM	123	2HB	PRO A	11131.492	15.154	-2.979	1.00	0.00	H
	ATOM	124	1HG	PRO A	11130.950	13.764	-0.761	1.00	0.00	H
	ATOM	125	2HG	PRO A	11129.942	13.618	-2.212	1.00	0.00	H
25	ATOM	126	1HD	PRO A	11132.014	11.749	-1.144	1.00	0.00	H
	ATOM	127	2HD	PRO A	11130.465	11.386	-1.931	1.00	0.00	H
	ATOM	128	N	PRO A	12134.718	13.035	-3.058	1.00	0.00	N
	ATOM	129	CA	PRO A	12136.168	13.131	-3.217	1.00	0.00	C
	ATOM	130	C	PRO A	12136.731	12.015	-4.090	1.00	0.00	C

	ATOM	131	O	PRO	A	12137.651	12.234	-4.879	1.00	0.00	O
	ATOM	132	CB	PRO	A	12136.677	12.999	-1.785	1.00	0.00	C
	ATOM	133	CG	PRO	A	12135.676	12.124	-1.112	1.00	0.00	C
	ATOM	134	CD	PRO	A	12134.349	12.402	-1.774	1.00	0.00	C
5	ATOM	135	HA	PRO	A	12136.461	14.089	-3.621	1.00	0.00	H
	ATOM	136	1HB	PRO	A	12137.659	12.549	-1.788	1.00	0.00	H
	ATOM	137	2HB	PRO	A	12136.720	13.974	-1.323	1.00	0.00	H
	ATOM	138	1HG	PRO	A	12135.949	11.087	-1.246	1.00	0.00	H
	ATOM	139	2HG	PRO	A	12135.627	12.365	-0.061	1.00	0.00	H
10	ATOM	140	1HD	PRO	A	12133.815	11.479	-1.940	1.00	0.00	H
	ATOM	141	2HD	PRO	A	12133.761	13.074	-1.167	1.00	0.00	H
	ATOM	142	N	GLY	A	13136.173	10.818	-3.944	1.00	0.00	N
	ATOM	143	CA	GLY	A	13136.632	9.684	-4.726	1.00	0.00	C
	ATOM	144	C	GLY	A	13136.975	8.487	-3.862	1.00	0.00	C
15	ATOM	145	O	GLY	A	13137.982	7.818	-4.091	1.00	0.00	O
	ATOM	146	H	GLY	A	13135.443	10.703	-3.300	1.00	0.00	H
	ATOM	147	1HA	GLY	A	13135.855	9.402	-5.421	1.00	0.00	H
	ATOM	148	2HA	GLY	A	13137.510	9.976	-5.283	1.00	0.00	H
	ATOM	149	N	ASN	A	14136.136	8.216	-2.867	1.00	0.00	N
20	ATOM	150	CA	ASN	A	14136.356	7.092	-1.966	1.00	0.00	C
	ATOM	151	C	ASN	A	14135.123	6.196	-1.901	1.00	0.00	C
	ATOM	152	O	ASN	A	14133.991	6.673	-1.989	1.00	0.00	O
	ATOM	153	CB	ASN	A	14136.708	7.595	-0.565	1.00	0.00	C
	ATOM	154	CG	ASN	A	14138.013	8.366	-0.540	1.00	0.00	C
25	ATOM	155	OD1	ASN	A	14138.027	9.590	-0.676	1.00	0.00	O
	ATOM	156	ND2	ASN	A	14139.119	7.653	-0.365	1.00	0.00	N
	ATOM	157	H	ASN	A	14135.350	8.787	-2.737	1.00	0.00	H
	ATOM	158	HA	ASN	A	14137.185	6.515	-2.350	1.00	0.00	H
	ATOM	159	1HB	ASN	A	14135.920	8.245	-0.214	1.00	0.00	H

	ATOM	160	2HB	ASN	A	14136.797	6.751	0.102	1.00	0.00	H
	ATOM	161	1HD2	ASN	A	14139.032	6.682	-0.263	1.00	0.00	H
	ATOM	162	2HD2	ASN	A	14139.977	8.127	-0.344	1.00	0.00	H
	ATOM	163	N	SER	A	15135.349	4.896	-1.747	1.00	0.00	N
5	ATOM	164	CA	SER	A	15134.257	3.933	-1.670	1.00	0.00	C
	ATOM	165	C	SER	A	15133.351	4.234	-0.480	1.00	0.00	C
	ATOM	166	O	SER	A	15132.125	4.183	-0.592	1.00	0.00	O
	ATOM	167	CB	SER	A	15134.808	2.511	-1.559	1.00	0.00	C
	ATOM	168	OG	SER	A	15133.762	1.569	-1.395	1.00	0.00	O
10	ATOM	169	H	SER	A	15136.274	4.576	-1.683	1.00	0.00	H
	ATOM	170	HA	SER	A	15133.678	4.015	-2.578	1.00	0.00	H
	ATOM	171	1HB	SER	A	15135.357	2.269	-2.456	1.00	0.00	H
	ATOM	172	2HB	SER	A	15135.469	2.450	-0.705	1.00	0.00	H
	ATOM	173	HG	SER	A	15133.843	0.882	-2.061	1.00	0.00	H
15	ATOM	174	N	HIS	A	16133.961	4.548	0.657	1.00	0.00	N
	ATOM	175	CA	HIS	A	16133.209	4.857	1.868	1.00	0.00	C
	ATOM	176	C	HIS	A	16134.054	5.675	2.839	1.00	0.00	C
	ATOM	177	O	HIS	A	16133.627	6.726	3.317	1.00	0.00	O
	ATOM	178	CB	HIS	A	16132.738	3.568	2.544	1.00	0.00	C
20	ATOM	179	CG	HIS	A	16131.347	3.167	2.163	1.00	0.00	C
	ATOM	180	ND1	HIS	A	16130.235	3.926	2.465	1.00	0.00	N
	ATOM	181	CD2	HIS	A	16130.889	2.079	1.500	1.00	0.00	C
	ATOM	182	CE1	HIS	A	16129.154	3.321	2.004	1.00	0.00	C
	ATOM	183	NE2	HIS	A	16129.523	2.200	1.414	1.00	0.00	N
25	ATOM	184	H	HIS	A	16134.940	4.572	0.684	1.00	0.00	H
	ATOM	185	HA	HIS	A	16132.346	5.439	1.582	1.00	0.00	H
	ATOM	186	1HB	HIS	A	16133.402	2.762	2.269	1.00	0.00	H
	ATOM	187	2HB	HIS	A	16132.765	3.700	3.616	1.00	0.00	H
	ATOM	188	HD1	HIS	A	16130.238	4.780	2.945	1.00	0.00	H

	ATOM	189	HD2	HIS	A	16131.487	1.267	1.110	1.00	0.00	H
	ATOM	190	HE1	HIS	A	16128.141	3.684	2.094	1.00	0.00	H
	ATOM	191	HE2	HIS	A	16128.912	1.519	1.063	1.00	0.00	H
	ATOM	192	N	GLY	A	17135.256	5.187	3.127	1.00	0.00	N
5	ATOM	193	CA	GLY	A	17136.143	5.884	4.039	1.00	0.00	C
	ATOM	194	C	GLY	A	17137.538	5.294	4.059	1.00	0.00	C
	ATOM	195	O	GLY	A	17138.056	4.942	5.119	1.00	0.00	O
	ATOM	196	H	GLY	A	17135.544	4.345	2.716	1.00	0.00	H
	ATOM	197	1HA	GLY	A	17136.206	6.921	3.740	1.00	0.00	H
10	ATOM	198	2HA	GLY	A	17135.728	5.835	5.036	1.00	0.00	H
	ATOM	199	N	LEU	A	18138.149	5.184	2.883	1.00	0.00	N
	ATOM	200	CA	LEU	A	18139.492	4.631	2.770	1.00	0.00	C
	ATOM	201	C	LEU	A	18140.541	5.657	3.188	1.00	0.00	C
	ATOM	202	O	LEU	A	18140.936	6.512	2.396	1.00	0.00	O
15	ATOM	203	CB	LEU	A	18139.758	4.170	1.335	1.00	0.00	C
	ATOM	204	CG	LEU	A	18138.859	3.033	0.845	1.00	0.00	C
	ATOM	205	CD1	LEU	A	18138.767	3.043	-0.673	1.00	0.00	C
	ATOM	206	CD2	LEU	A	18139.378	1.691	1.341	1.00	0.00	C
	ATOM	207	H	LEU	A	18137.684	5.482	2.074	1.00	0.00	H
20	ATOM	208	HA	LEU	A	18139.558	3.778	3.429	1.00	0.00	H
	ATOM	209	1HB	LEU	A	18139.624	5.016	0.677	1.00	0.00	H
	ATOM	210	2HB	LEU	A	18140.784	3.841	1.268	1.00	0.00	H
	ATOM	211	HG	LEU	A	18137.863	3.174	1.239	1.00	0.00	H
	ATOM	212	1HD1	LEU	A	18139.705	3.382	-1.088	1.00	0.00	H
25	ATOM	213	2HD1	LEU	A	18137.975	3.707	-0.982	1.00	0.00	H
	ATOM	214	3HD1	LEU	A	18138.559	2.043	-1.028	1.00	0.00	H
	ATOM	215	1HD2	LEU	A	18139.928	1.837	2.260	1.00	0.00	H
	ATOM	216	2HD2	LEU	A	18140.029	1.260	0.596	1.00	0.00	H
	ATOM	217	3HD2	LEU	A	18138.546	1.028	1.521	1.00	0.00	H

	ATOM	218	N	GLU A	19140.986	5.564	4.436	1.00	0.00	N
	ATOM	219	CA	GLU A	19141.989	6.485	4.959	1.00	0.00	C
	ATOM	220	C	GLU A	19143.037	5.739	5.779	1.00	0.00	C
	ATOM	221	O	GLU A	19142.979	4.517	5.913	1.00	0.00	O
5	ATOM	222	CB	GLU A	19141.325	7.562	5.819	1.00	0.00	C
	ATOM	223	CG	GLU A	19140.463	7.001	6.937	1.00	0.00	C
	ATOM	224	CD	GLU A	19139.402	7.979	7.402	1.00	0.00	C
	ATOM	225	OE1	GLU A	19139.434	8.369	8.589	1.00	0.00	O
	ATOM	226	OE2	GLU A	19138.541	8.356	6.581	1.00	0.00	O
10	ATOM	227	H	GLU A	19140.633	4.861	5.019	1.00	0.00	H
	ATOM	228	HA	GLU A	19142.476	6.957	4.119	1.00	0.00	H
	ATOM	229	1HB	GLU A	19142.094	8.179	6.260	1.00	0.00	H
	ATOM	230	2HB	GLU A	19140.701	8.176	5.186	1.00	0.00	H
	ATOM	231	1HG	GLU A	19139.974	6.106	6.584	1.00	0.00	H
15	ATOM	232	2HG	GLU A	19141.098	6.756	7.776	1.00	0.00	H
	ATOM	233	N	VAL A	20143.994	6.483	6.324	1.00	0.00	N
	ATOM	234	CA	VAL A	20145.055	5.891	7.131	1.00	0.00	C
	ATOM	235	C	VAL A	20144.481	5.136	8.326	1.00	0.00	C
	ATOM	236	O	VAL A	20143.631	5.653	9.050	1.00	0.00	O
20	ATOM	237	CB	VAL A	20146.037	6.964	7.639	1.00	0.00	C
	ATOM	238	CG1	VAL A	20147.209	6.320	8.365	1.00	0.00	C
	ATOM	239	CG2	VAL A	20146.525	7.828	6.485	1.00	0.00	C
	ATOM	240	H	VAL A	20143.987	7.452	6.181	1.00	0.00	H
	ATOM	241	HA	VAL A	20145.601	5.198	6.508	1.00	0.00	H
25	ATOM	242	HB	VAL A	20145.515	7.600	8.339	1.00	0.00	H
	ATOM	243	1HG1	VAL A	20148.077	6.958	8.284	1.00	0.00	H
	ATOM	244	2HG1	VAL A	20147.425	5.361	7.919	1.00	0.00	H
	ATOM	245	3HG1	VAL A	20146.957	6.185	9.406	1.00	0.00	H
	ATOM	246	1HG2	VAL A	20145.737	8.499	6.179	1.00	0.00	H



	ATOM	247	2HG2	VAL	A	20146.802	7.196	5.655	1.00	0.00	H
	ATOM	248	3HG2	VAL	A	20147.384	8.402	6.803	1.00	0.00	H
	ATOM	249	N	GLY	A	21144.950	3.908	8.525	1.00	0.00	N
	ATOM	250	CA	GLY	A	21144.472	3.102	9.631	1.00	0.00	C
5	ATOM	251	C	GLY	A	21143.364	2.152	9.221	1.00	0.00	C
	ATOM	252	O	GLY	A	21143.223	1.069	9.789	1.00	0.00	O
	ATOM	253	H	GLY	A	21145.627	3.547	7.913	1.00	0.00	H
	ATOM	254	1HA	GLY	A	21145.296	2.526	10.025	1.00	0.00	H
	ATOM	255	2HA	GLY	A	21144.102	3.757	10.406	1.00	0.00	H
10	ATOM	256	N	SER	A	22142.573	2.559	8.232	1.00	0.00	N
	ATOM	257	CA	SER	A	22141.471	1.736	7.747	1.00	0.00	C
	ATOM	258	C	SER	A	22141.972	0.673	6.775	1.00	0.00	C
	ATOM	259	O	SER	A	22142.811	0.948	5.916	1.00	0.00	O
	ATOM	260	CB	SER	A	22140.417	2.611	7.066	1.00	0.00	C
15	ATOM	261	OG	SER	A	22139.648	3.320	8.022	1.00	0.00	O
	ATOM	262	H	SER	A	22142.735	3.432	7.820	1.00	0.00	H
	ATOM	263	HA	SER	A	22141.024	1.246	8.598	1.00	0.00	H
	ATOM	264	1HB	SER	A	22140.907	3.322	6.417	1.00	0.00	H
	ATOM	265	2HB	SER	A	22139.756	1.986	6.482	1.00	0.00	H
20	ATOM	266	HG	SER	A	22140.233	3.756	8.644	1.00	0.00	H
	ATOM	267	N	LEU	A	23141.454	-0.542	6.915	1.00	0.00	N
	ATOM	268	CA	LEU	A	23141.848	-1.647	6.049	1.00	0.00	C
	ATOM	269	C	LEU	A	23141.271	-1.474	4.649	1.00	0.00	C
	ATOM	270	O	LEU	A	23140.212	-0.873	4.474	1.00	0.00	O
25	ATOM	271	CB	LEU	A	23141.386	-2.979	6.644	1.00	0.00	C
	ATOM	272	CG	LEU	A	23142.034	-3.354	7.977	1.00	0.00	C
	ATOM	273	CD1	LEU	A	23141.095	-4.216	8.805	1.00	0.00	C
	ATOM	274	CD2	LEU	A	23143.354	-4.074	7.743	1.00	0.00	C
	ATOM	275	H	LEU	A	23140.789	-0.700	7.620	1.00	0.00	H

	ATOM	276	HA	LEU A	23142.926	-1.648	5.984	1.00	0.00	H
	ATOM	277	1HB	LEU A	23140.316	-2.931	6.788	1.00	0.00	H
	ATOM	278	2HB	LEU A	23141.602	-3.761	5.932	1.00	0.00	H
	ATOM	279	HG	LEU A	23142.239	-2.452	8.537	1.00	0.00	H
5	ATOM	280	1HD1	LEU A	23140.088	-3.834	8.720	1.00	0.00	H
	ATOM	281	2HD1	LEU A	23141.402	-4.193	9.840	1.00	0.00	H
	ATOM	282	3HD1	LEU A	23141.125	-5.232	8.442	1.00	0.00	H
	ATOM	283	1HD2	LEU A	23143.989	-3.950	8.607	1.00	0.00	H
	ATOM	284	2HD2	LEU A	23143.843	-3.657	6.874	1.00	0.00	H
10	ATOM	285	3HD2	LEU A	23143.167	-5.125	7.581	1.00	0.00	H
	ATOM	286	N	ALA A	24141.975	-2.007	3.654	1.00	0.00	N
	ATOM	287	CA	ALA A	24141.532	-1.911	2.269	1.00	0.00	C
	ATOM	288	C	ALA A	24142.129	-3.030	1.423	1.00	0.00	C
	ATOM	289	O	ALA A	24142.995	-3.774	1.883	1.00	0.00	O
15	ATOM	290	CB	ALA A	24141.902	-0.554	1.689	1.00	0.00	C
	ATOM	291	H	ALA A	24142.811	-2.474	3.858	1.00	0.00	H
	ATOM	292	HA	ALA A	24140.455	-1.999	2.256	1.00	0.00	H
	ATOM	293	1HB	ALA A	24142.966	-0.395	1.797	1.00	0.00	H
	ATOM	294	2HB	ALA A	24141.367	0.221	2.216	1.00	0.00	H
20	ATOM	295	3HB	ALA A	24141.638	-0.525	0.642	1.00	0.00	H
	ATOM	296	N	GLU A	25141.660	-3.144	0.185	1.00	0.00	N
	ATOM	297	CA	GLU A	25142.147	-4.174	-0.726	1.00	0.00	C
	ATOM	298	C	GLU A	25142.482	-3.580	-2.090	1.00	0.00	C
	ATOM	299	O	GLU A	25141.969	-2.524	-2.461	1.00	0.00	O
25	ATOM	300	CB	GLU A	25141.105	-5.282	-0.880	1.00	0.00	C
	ATOM	301	CG	GLU A	25141.622	-6.505	-1.622	1.00	0.00	C
	ATOM	302	CD	GLU A	25140.539	-7.537	-1.869	1.00	0.00	C
	ATOM	303	OE1	GLU A	25139.448	-7.152	-2.336	1.00	0.00	O
	ATOM	304	OE2	GLU A	25140.785	-8.732	-1.597	1.00	0.00	O

	ATOM	305	H	GLU	A	25140.969	-2.522	-0.124	1.00	0.00	H
	ATOM	306	HA	GLU	A	25143.047	-4.594	-0.299	1.00	0.00	H
	ATOM	307	1HB	GLU	A	25140.778	-5.594	0.100	1.00	0.00	H
	ATOM	308	2HB	GLU	A	25140.258	-4.890	-1.424	1.00	0.00	H
5	ATOM	309	1HG	GLU	A	25142.022	-6.190	-2.575	1.00	0.00	H
	ATOM	310	2HG	GLU	A	25142.407	-6.960	-1.035	1.00	0.00	H
	ATOM	311	N	VAL	A	26143.346	-4.266	-2.833	1.00	0.00	N
	ATOM	312	CA	VAL	A	26143.749	-3.806	-4.157	1.00	0.00	C
	ATOM	313	C	VAL	A	26143.397	-4.834	-5.227	1.00	0.00	C
10	ATOM	314	O	VAL	A	26143.403	-6.038	-4.971	1.00	0.00	O
	ATOM	315	CB	VAL	A	26145.261	-3.520	-4.216	1.00	0.00	C
	ATOM	316	CG1	VAL	A	26145.630	-2.857	-5.534	1.00	0.00	C
	ATOM	317	CG2	VAL	A	26145.688	-2.657	-3.038	1.00	0.00	C
	ATOM	318	H	VAL	A	26143.721	-5.100	-2.482	1.00	0.00	H
15	ATOM	319	HA	VAL	A	26143.221	-2.886	-4.366	1.00	0.00	H
	ATOM	320	HB	VAL	A	26145.788	-4.461	-4.153	1.00	0.00	H
	ATOM	321	1HG1	VAL	A	26144.767	-2.343	-5.931	1.00	0.00	H
	ATOM	322	2HG1	VAL	A	26145.957	-3.609	-6.236	1.00	0.00	H
	ATOM	323	3HG1	VAL	A	26146.427	-2.146	-5.370	1.00	0.00	H
20	ATOM	324	1HG2	VAL	A	26145.118	-1.739	-3.039	1.00	0.00	H
	ATOM	325	2HG2	VAL	A	26146.740	-2.427	-3.122	1.00	0.00	H
	ATOM	326	3HG2	VAL	A	26145.508	-3.190	-2.117	1.00	0.00	H
	ATOM	327	N	LYS	A	27143.090	-4.350	-6.425	1.00	0.00	N
	ATOM	328	CA	LYS	A	27142.735	-5.226	-7.536	1.00	0.00	C
25	ATOM	329	C	LYS	A	27143.971	-5.609	-8.343	1.00	0.00	C
	ATOM	330	O	LYS	A	27144.276	-4.991	-9.362	1.00	0.00	O
	ATOM	331	CB	LYS	A	27141.708	-4.544	-8.443	1.00	0.00	C
	ATOM	332	CG	LYS	A	27140.274	-4.963	-8.160	1.00	0.00	C
	ATOM	333	CD	LYS	A	27139.289	-4.199	-9.032	1.00	0.00	C

	ATOM	334	CE	LYS A	27138.175	-5.101	-9.536	1.00	0.00	C
	ATOM	335	NZ	LYS A	27138.653	-6.038	-10.591	1.00	0.00	N
	ATOM	336	H	LYS A	27143.103	-3.380	-6.567	1.00	0.00	H
	ATOM	337	HA	LYS A	27142.297	-6.123	-7.123	1.00	0.00	H
5	ATOM	338	1HB	LYS A	27141.781	-3.475	-8.309	1.00	0.00	H
	ATOM	339	2HB	LYS A	27141.934	-4.786	-9.470	1.00	0.00	H
	ATOM	340	1HG	LYS A	27140.171	-6.019	-8.360	1.00	0.00	H
	ATOM	341	2HG	LYS A	27140.050	-4.766	-7.122	1.00	0.00	H
	ATOM	342	1HD	LYS A	27138.855	-3.399	-8.451	1.00	0.00	H
10	ATOM	343	2HD	LYS A	27139.818	-3.785	-9.879	1.00	0.00	H
	ATOM	344	1HE	LYS A	27137.790	-5.675	-8.707	1.00	0.00	H
	ATOM	345	2HE	LYS A	27137.388	-4.486	-9.945	1.00	0.00	H
	ATOM	346	1HZ	LYS A	27139.312	-5.550	-11.231	1.00	0.00	H
	ATOM	347	2HZ	LYS A	27137.849	-6.394	-11.145	1.00	0.00	H
15	ATOM	348	3HZ	LYS A	27139.145	-6.845	-10.156	1.00	0.00	H
	ATOM	349	N	GLU A	28144.679	-6.635	-7.880	1.00	0.00	N
	ATOM	350	CA	GLU A	28145.883	-7.101	-8.559	1.00	0.00	C
	ATOM	351	C	GLU A	28145.850	-8.615	-8.743	1.00	0.00	C
	ATOM	352	O	GLU A	28144.881	-9.276	-8.371	1.00	0.00	O
20	ATOM	353	CB	GLU A	28147.129	-6.694	-7.770	1.00	0.00	C
	ATOM	354	CG	GLU A	28148.209	-6.054	-8.627	1.00	0.00	C
	ATOM	355	CD	GLU A	28147.852	-4.643	-9.054	1.00	0.00	C
	ATOM	356	OE1	GLU A	28147.828	-4.382	-10.276	1.00	0.00	O
	ATOM	357	OE2	GLU A	28147.598	-3.801	-8.168	1.00	0.00	O
25	ATOM	358	H	GLU A	28144.386	-7.089	-7.063	1.00	0.00	H
	ATOM	359	HA	GLU A	28145.915	-6.634	-9.532	1.00	0.00	H
	ATOM	360	1HB	GLU A	28146.842	-5.989	-7.005	1.00	0.00	H
	ATOM	361	2HB	GLU A	28147.548	-7.573	-7.299	1.00	0.00	H
	ATOM	362	1HG	GLU A	28149.127	-6.021	-8.060	1.00	0.00	H

	ATOM	363	2HG	GLU	A	28148.355	-6.657	-9.511	1.00	0.00	H
	ATOM	364	N	ASN	A	29146.918	-9.159	-9.319	1.00	0.00	N
	ATOM	365	CA	ASN	A	29147.013	-10.595	-9.551	1.00	0.00	C
	ATOM	366	C	ASN	A	29147.022	-11.360	-8.230	1.00	0.00	C
5	ATOM	367	O	ASN	A	29146.158	-12.203	-7.987	1.00	0.00	O
	ATOM	368	CB	ASN	A	29148.275	-10.920	-10.354	1.00	0.00	C
	ATOM	369	CG	ASN	A	29147.996	-11.056	-11.838	1.00	0.00	C
	ATOM	370	OD1	ASN	A	29147.912	-12.164	-12.367	1.00	0.00	O
	ATOM	371	ND2	ASN	A	29147.853	-9.925	-12.519	1.00	0.00	N
10	ATOM	372	H	ASN	A	29147.660	-8.580	-9.594	1.00	0.00	H
	ATOM	373	HA	ASN	A	29146.146	-10.896	-10.121	1.00	0.00	H
	ATOM	374	1HB	ASN	A	29148.997	-10.130	-10.214	1.00	0.00	H
	ATOM	375	2HB	ASN	A	29148.691	-11.852	-9.998	1.00	0.00	H
	ATOM	376	1HD2	ASN	A	29147.934	-9.078	-12.031	1.00	0.00	H
15	ATOM	377	2HD2	ASN	A	29147.672	-9.983	-13.480	1.00	0.00	H
	ATOM	378	N	PRO	A	30148.002	-11.075	-7.356	1.00	0.00	N
	ATOM	379	CA	PRO	A	30148.120	-11.741	-6.056	1.00	0.00	C
	ATOM	380	C	PRO	A	30147.114	-11.205	-5.038	1.00	0.00	C
	ATOM	381	O	PRO	A	30147.237	-10.072	-4.573	1.00	0.00	O
20	ATOM	382	CB	PRO	A	30149.546	-11.404	-5.625	1.00	0.00	C
	ATOM	383	CG	PRO	A	30149.829	-10.088	-6.263	1.00	0.00	C
	ATOM	384	CD	PRO	A	30149.076	-10.083	-7.567	1.00	0.00	C
	ATOM	385	HA	PRO	A	30148.011	-12.810	-6.147	1.00	0.00	H
	ATOM	386	1HB	PRO	A	30149.593	-11.340	-4.546	1.00	0.00	H
25	ATOM	387	2HB	PRO	A	30150.223	-12.167	-5.977	1.00	0.00	H
	ATOM	388	1HG	PRO	A	30149.481	-9.289	-5.626	1.00	0.00	H
	ATOM	389	2HG	PRO	A	30150.890	-9.989	-6.444	1.00	0.00	H
	ATOM	390	1HD	PRO	A	30148.662	-9.105	-7.757	1.00	0.00	H
	ATOM	391	2HD	PRO	A	30149.722	-10.382	-8.377	1.00	0.00	H

	ATOM	392	N	PRO A	31146.100	-12.014	-4.676	1.00	0.00	N
	ATOM	393	CA	PRO A	31145.077	-11.606	-3.707	1.00	0.00	C
	ATOM	394	C	PRO A	31145.637	-11.476	-2.293	1.00	0.00	C
	ATOM	395	O	PRO A	31145.647	-12.440	-1.529	1.00	0.00	O
5	ATOM	396	CB	PRO A	31144.050	-12.738	-3.773	1.00	0.00	C
	ATOM	397	CG	PRO A	31144.818	-13.920	-4.250	1.00	0.00	C
	ATOM	398	CD	PRO A	31145.872	-13.382	-5.177	1.00	0.00	C
	ATOM	399	HA	PRO A	31144.611	-10.675	-3.994	1.00	0.00	H
	ATOM	400	1HB	PRO A	31143.633	-12.906	-2.791	1.00	0.00	H
10	ATOM	401	2HB	PRO A	31143.263	-12.474	-4.464	1.00	0.00	H
	ATOM	402	1HG	PRO A	31145.278	-14.423	-3.411	1.00	0.00	H
	ATOM	403	2HG	PRO A	31144.163	-14.596	-4.779	1.00	0.00	H
	ATOM	404	1HD	PRO A	31146.773	-13.973	-5.109	1.00	0.00	H
	ATOM	405	2HD	PRO A	31145.507	-13.363	-6.193	1.00	0.00	H
15	ATOM	406	N	PHE A	32146.101	-10.278	-1.955	1.00	0.00	N
	ATOM	407	CA	PHE A	32146.662	-10.020	-0.634	1.00	0.00	C
	ATOM	408	C	PHE A	32145.773	-9.069	0.160	1.00	0.00	C
	ATOM	409	O	PHE A	32144.803	-8.524	-0.368	1.00	0.00	O
	ATOM	410	CB	PHE A	32148.070	-9.434	-0.760	1.00	0.00	C
20	ATOM	411	CG	PHE A	32148.162	-8.301	-1.742	1.00	0.00	C
	ATOM	412	CD1	PHE A	32148.899	-8.435	-2.907	1.00	0.00	C
	ATOM	413	CD2	PHE A	32147.511	-7.102	-1.499	1.00	0.00	C
	ATOM	414	CE1	PHE A	32148.985	-7.394	-3.813	1.00	0.00	C
	ATOM	415	CE2	PHE A	32147.593	-6.057	-2.400	1.00	0.00	C
25	ATOM	416	CZ	PHE A	32148.331	-6.203	-3.558	1.00	0.00	C
	ATOM	417	H	PHE A	32146.065	-9.548	-2.609	1.00	0.00	H
	ATOM	418	HA	PHE A	32146.721	-10.962	-0.109	1.00	0.00	H
	ATOM	419	1HB	PHE A	32148.386	-9.064	0.204	1.00	0.00	H
	ATOM	420	2HB	PHE A	32148.748	-10.211	-1.083	1.00	0.00	H

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	ATOM	421	HD1	PHE	A	32149.409	-9.365	-3.107	1.00	0.00	H
	ATOM	422	HD2	PHE	A	32146.933	-6.987	-0.593	1.00	0.00	H
	ATOM	423	HE1	PHE	A	32149.563	-7.510	-4.717	1.00	0.00	H
	ATOM	424	HE2	PHE	A	32147.082	-5.128	-2.199	1.00	0.00	H
5	ATOM	425	HZ	PHE	A	32148.397	-5.389	-4.264	1.00	0.00	H
	ATOM	426	N	TYR	A	33146.109	-8.875	1.431	1.00	0.00	N
	ATOM	427	CA	TYR	A	33145.340	-7.989	2.298	1.00	0.00	C
	ATOM	428	C	TYR	A	33146.263	-7.088	3.112	1.00	0.00	C
	ATOM	429	O	TYR	A	33147.282	-7.538	3.635	1.00	0.00	O
10	ATOM	430	CB	TYR	A	33144.448	-8.807	3.236	1.00	0.00	C
	ATOM	431	CG	TYR	A	33143.132	-9.218	2.616	1.00	0.00	C
	ATOM	432	CD1	TYR	A	33142.336	-8.293	1.954	1.00	0.00	C
	ATOM	433	CD2	TYR	A	33142.687	-10.531	2.692	1.00	0.00	C
	ATOM	434	CE1	TYR	A	33141.131	-8.664	1.386	1.00	0.00	C
15	ATOM	435	CE2	TYR	A	33141.485	-10.911	2.126	1.00	0.00	C
	ATOM	436	CZ	TYR	A	33140.711	-9.974	1.474	1.00	0.00	C
	ATOM	437	OH	TYR	A	33139.514	-10.348	0.910	1.00	0.00	O
	ATOM	438	H	TYR	A	33146.892	-9.337	1.795	1.00	0.00	H
	ATOM	439	HA	TYR	A	33144.715	-7.371	1.670	1.00	0.00	H
20	ATOM	440	1HB	TYR	A	33144.972	-9.705	3.527	1.00	0.00	H
	ATOM	441	2HB	TYR	A	33144.233	-8.221	4.117	1.00	0.00	H
	ATOM	442	HD1	TYR	A	33142.667	-7.267	1.885	1.00	0.00	H
	ATOM	443	HD2	TYR	A	33143.295	-11.264	3.203	1.00	0.00	H
	ATOM	444	HE1	TYR	A	33140.527	-7.930	0.875	1.00	0.00	H
25	ATOM	445	HE2	TYR	A	33141.156	-11.937	2.196	1.00	0.00	H
	ATOM	446	HH	TYR	A	33139.057	-10.955	1.498	1.00	0.00	H
	ATOM	447	N	GLY	A	34145.899	-5.814	3.214	1.00	0.00	N
	ATOM	448	CA	GLY	A	34146.705	-4.871	3.966	1.00	0.00	C
	ATOM	449	C	GLY	A	34145.905	-3.675	4.442	1.00	0.00	C

	ATOM	450	O	GLY A	34144.740	-3.513	4.077	1.00	0.00	O
	ATOM	451	H	GLY A	34145.075	-5.513	2.776	1.00	0.00	H
	ATOM	452	1HA	GLY A	34147.123	-5.375	4.825	1.00	0.00	H
	ATOM	453	2HA	GLY A	34147.511	-4.524	3.338	1.00	0.00	H
5	ATOM	454	N	VAL A	35146.531	-2.835	5.261	1.00	0.00	N
	ATOM	455	CA	VAL A	35145.870	-1.647	5.789	1.00	0.00	C
	ATOM	456	C	VAL A	35146.552	-0.375	5.292	1.00	0.00	C
	ATOM	457	O	VAL A	35147.766	-0.345	5.095	1.00	0.00	O
	ATOM	458	CB	VAL A	35145.861	-1.649	7.330	1.00	0.00	C
10	ATOM	459	CG1	VAL A	35147.281	-1.641	7.878	1.00	0.00	C
	ATOM	460	CG2	VAL A	35145.069	-0.464	7.864	1.00	0.00	C
	ATOM	461	H	VAL A	35147.459	-3.018	5.515	1.00	0.00	H
	ATOM	462	HA	VAL A	35144.846	-1.653	5.443	1.00	0.00	H
	ATOM	463	HB	VAL A	35145.378	-2.556	7.665	1.00	0.00	H
15	ATOM	464	1HG1	VAL A	35147.861	-0.890	7.361	1.00	0.00	H
	ATOM	465	2HG1	VAL A	35147.730	-2.611	7.726	1.00	0.00	H
	ATOM	466	3HG1	VAL A	35147.259	-1.415	8.934	1.00	0.00	H
	ATOM	467	1HG2	VAL A	35144.397	-0.107	7.098	1.00	0.00	H
	ATOM	468	2HG2	VAL A	35145.749	0.326	8.144	1.00	0.00	H
20	ATOM	469	3HG2	VAL A	35144.500	-0.772	8.729	1.00	0.00	H
	ATOM	470	N	ILE A	36145.761	0.675	5.093	1.00	0.00	N
	ATOM	471	CA	ILE A	36146.289	1.949	4.620	1.00	0.00	C
	ATOM	472	C	ILE A	36147.261	2.548	5.632	1.00	0.00	C
	ATOM	473	O	ILE A	36147.108	2.361	6.840	1.00	0.00	O
25	ATOM	474	CB	ILE A	36145.160	2.962	4.345	1.00	0.00	C
	ATOM	475	CG1	ILE A	36144.100	2.342	3.431	1.00	0.00	C
	ATOM	476	CG2	ILE A	36145.726	4.232	3.724	1.00	0.00	C
	ATOM	477	CD1	ILE A	36142.962	3.283	3.101	1.00	0.00	C
	ATOM	478	H	ILE A	36144.801	0.591	5.268	1.00	0.00	H



	ATOM	479	HA	ILE A	36146.816	1.768	3.695	1.00	0.00	H
	ATOM	480	HB	ILE A	36144.704	3.224	5.288	1.00	0.00	H
	ATOM	481	1HG1	ILE A	36144.564	2.046	2.502	1.00	0.00	H
	ATOM	482	2HG1	ILE A	36143.683	1.472	3.913	1.00	0.00	H
5	ATOM	483	1HG2	ILE A	36146.440	4.677	4.402	1.00	0.00	H
	ATOM	484	2HG2	ILE A	36144.923	4.930	3.538	1.00	0.00	H
	ATOM	485	3HG2	ILE A	36146.216	3.989	2.794	1.00	0.00	H
	ATOM	486	1HD1	ILE A	36143.360	4.209	2.712	1.00	0.00	H
	ATOM	487	2HD1	ILE A	36142.390	3.485	3.995	1.00	0.00	H
10	ATOM	488	3HD1	ILE A	36142.321	2.827	2.360	1.00	0.00	H
	ATOM	489	N	ARG A	37148.260	3.266	5.132	1.00	0.00	N
	ATOM	490	CA	ARG A	37149.257	3.890	5.993	1.00	0.00	C
	ATOM	491	C	ARG A	37149.449	5.360	5.629	1.00	0.00	C
	ATOM	492	O	ARG A	37149.125	6.251	6.413	1.00	0.00	O
15	ATOM	493	CB	ARG A	37150.590	3.149	5.885	1.00	0.00	C
	ATOM	494	CG	ARG A	37150.463	1.645	6.063	1.00	0.00	C
	ATOM	495	CD	ARG A	37150.492	1.254	7.532	1.00	0.00	C
	ATOM	496	NE	ARG A	37149.280	1.671	8.234	1.00	0.00	N
	ATOM	497	CZ	ARG A	37149.190	1.779	9.558	1.00	0.00	C
20	ATOM	498	NH1	ARG A	37150.236	1.502	10.326	1.00	0.00	N
	ATOM	499	NH2	ARG A	37148.049	2.166	10.114	1.00	0.00	N
	ATOM	500	H	ARG A	37148.330	3.378	4.161	1.00	0.00	H
	ATOM	501	HA	ARG A	37148.903	3.828	7.011	1.00	0.00	H
	ATOM	502	1HB	ARG A	37151.018	3.340	4.912	1.00	0.00	H
25	ATOM	503	2HB	ARG A	37151.261	3.524	6.644	1.00	0.00	H
	ATOM	504	1HG	ARG A	37149.529	1.318	5.633	1.00	0.00	H
	ATOM	505	2HG	ARG A	37151.286	1.161	5.556	1.00	0.00	H
	ATOM	506	1HD	ARG A	37150.587	0.181	7.604	1.00	0.00	H
	ATOM	507	2HD	ARG A	37151.345	1.722	7.999	1.00	0.00	H

	ATOM	508	HE	ARG	A	37148.493	1.881	7.691	1.00	0.00	H
	ATOM	509	1HH1	ARG	A	37151.098	1.209	9.913	1.00	0.00	H
	ATOM	510	2HH1	ARG	A	37150.161	1.585	11.320	1.00	0.00	H
	ATOM	511	1HH2	ARG	A	37147.259	2.376	9.540	1.00	0.00	H
5	ATOM	512	2HH2	ARG	A	37147.982	2.247	11.108	1.00	0.00	H
	ATOM	513	N	TRP	A	38149.977	5.605	4.434	1.00	0.00	N
	ATOM	514	CA	TRP	A	38150.210	6.967	3.968	1.00	0.00	C
	ATOM	515	C	TRP	A	38149.461	7.233	2.665	1.00	0.00	C
	ATOM	516	O	TRP	A	38149.556	6.459	1.712	1.00	0.00	O
10	ATOM	517	CB	TRP	A	38151.709	7.216	3.772	1.00	0.00	C
	ATOM	518	CG	TRP	A	38152.013	8.486	3.032	1.00	0.00	C
	ATOM	519	CD1	TRP	A	38152.250	9.716	3.576	1.00	0.00	C
	ATOM	520	CD2	TRP	A	38152.100	8.650	1.612	1.00	0.00	C
	ATOM	521	NE1	TRP	A	38152.480	10.635	2.580	1.00	0.00	N
15	ATOM	522	CE2	TRP	A	38152.395	10.004	1.365	1.00	0.00	C
	ATOM	523	CE3	TRP	A	38151.959	7.782	0.525	1.00	0.00	C
	ATOM	524	CZ2	TRP	A	38152.550	10.509	0.076	1.00	0.00	C
	ATOM	525	CZ3	TRP	A	38152.114	8.285	-0.753	1.00	0.00	C
	ATOM	526	CH2	TRP	A	38152.406	9.637	-0.968	1.00	0.00	C
20	ATOM	527	H	TRP	A	38150.215	4.852	3.852	1.00	0.00	H
	ATOM	528	HA	TRP	A	38149.839	7.642	4.724	1.00	0.00	H
	ATOM	529	1HB	TRP	A	38152.188	7.272	4.739	1.00	0.00	H
	ATOM	530	2HB	TRP	A	38152.134	6.395	3.212	1.00	0.00	H
	ATOM	531	HD1	TRP	A	38152.253	9.922	4.636	1.00	0.00	H
25	ATOM	532	HE1	TRP	A	38152.676	11.585	2.716	1.00	0.00	H
	ATOM	533	HE3	TRP	A	38151.734	6.737	0.672	1.00	0.00	H
	ATOM	534	HZ2	TRP	A	38152.772	11.549	-0.107	1.00	0.00	H
	ATOM	535	HZ3	TRP	A	38152.009	7.629	-1.604	1.00	0.00	H
	ATOM	536	HH2	TRP	A	38152.519	9.986	-1.984	1.00	0.00	H

	ATOM	537	N	ILE A	39148.726	8.338	2.631	1.00	0.00	N
	ATOM	538	CA	ILE A	39147.967	8.719	1.446	1.00	0.00	C
	ATOM	539	C	ILE A	39148.411	10.088	0.940	1.00	0.00	C
	ATOM	540	O	ILE A	39148.093	11.113	1.541	1.00	0.00	O
5	ATOM	541	CB	ILE A	39146.454	8.753	1.731	1.00	0.00	C
	ATOM	542	CG1	ILE A	39146.012	7.460	2.417	1.00	0.00	C
	ATOM	543	CG2	ILE A	39145.675	8.969	0.442	1.00	0.00	C
	ATOM	544	CD1	ILE A	39144.676	7.574	3.117	1.00	0.00	C
	ATOM	545	H	ILE A	39148.697	8.917	3.421	1.00	0.00	H
10	ATOM	546	HA	ILE A	39148.154	7.983	0.677	1.00	0.00	H
	ATOM	547	HB	ILE A	39146.253	9.587	2.386	1.00	0.00	H
	ATOM	548	1HG1	ILE A	39145.933	6.677	1.678	1.00	0.00	H
	ATOM	549	2HG1	ILE A	39146.751	7.181	3.154	1.00	0.00	H
	ATOM	550	1HG2	ILE A	39144.625	8.799	0.623	1.00	0.00	H
15	ATOM	551	2HG2	ILE A	39146.028	8.278	-0.310	1.00	0.00	H
	ATOM	552	3HG2	ILE A	39145.822	9.982	0.098	1.00	0.00	H
	ATOM	553	1HD1	ILE A	39144.179	8.477	2.800	1.00	0.00	H
	ATOM	554	2HD1	ILE A	39144.830	7.604	4.186	1.00	0.00	H
	ATOM	555	3HD1	ILE A	39144.064	6.719	2.866	1.00	0.00	H
20	ATOM	556	N	GLY A	40149.152	10.097	-0.164	1.00	0.00	N
	ATOM	557	CA	GLY A	40149.630	11.349	-0.720	1.00	0.00	C
	ATOM	558	C	GLY A	40150.140	11.202	-2.140	1.00	0.00	C
	ATOM	559	O	GLY A	40149.996	10.144	-2.755	1.00	0.00	O
	ATOM	560	H	GLY A	40149.379	9.250	-0.599	1.00	0.00	H
25	ATOM	561	1HA	GLY A	40148.823	12.064	-0.713	1.00	0.00	H
	ATOM	562	2HA	GLY A	40150.431	11.721	-0.100	1.00	0.00	H
	ATOM	563	N	GLN A	41150.738	12.268	-2.659	1.00	0.00	N
	ATOM	564	CA	GLN A	41151.275	12.266	-4.014	1.00	0.00	C
	ATOM	565	C	GLN A	41152.744	12.682	-4.013	1.00	0.00	C

	ATOM	566	O	GLN A	41153.073	13.816	-3.661	1.00	0.00	O
	ATOM	567	CB	GLN A	41150.463	13.213	-4.899	1.00	0.00	C
	ATOM	568	CG	GLN A	41148.960	13.014	-4.785	1.00	0.00	C
	ATOM	569	CD	GLN A	41148.199	14.324	-4.770	1.00	0.00	C
5	ATOM	570	OE1	GLN A	41148.192	15.042	-3.770	1.00	0.00	O
	ATOM	571	NE2	GLN A	41147.550	14.643	-5.884	1.00	0.00	N
	ATOM	572	H	GLN A	41150.820	13.080	-2.117	1.00	0.00	H
	ATOM	573	HA	GLN A	41151.192	11.264	-4.405	1.00	0.00	H
	ATOM	574	1HB	GLN A	41150.692	14.230	-4.618	1.00	0.00	H
10	ATOM	575	2HB	GLN A	41150.750	13.060	-5.927	1.00	0.00	H
	ATOM	576	1HG	GLN A	41148.623	12.428	-5.626	1.00	0.00	H
	ATOM	577	2HG	GLN A	41148.750	12.481	-3.869	1.00	0.00	H
	ATOM	578	1HE2	GLN A	41147.599	14.024	-6.642	1.00	0.00	H
	ATOM	579	2HE2	GLN A	41147.049	15.485	-5.903	1.00	0.00	H
15	ATOM	580	N	PRO A	42153.655	11.772	-4.405	1.00	0.00	N
	ATOM	581	CA	PRO A	42155.092	12.061	-4.440	1.00	0.00	C
	ATOM	582	C	PRO A	42155.420	13.259	-5.326	1.00	0.00	C
	ATOM	583	O	PRO A	42154.629	13.637	-6.191	1.00	0.00	O
	ATOM	584	CB	PRO A	42155.706	10.783	-5.022	1.00	0.00	C
20	ATOM	585	CG	PRO A	42154.698	9.719	-4.754	1.00	0.00	C
	ATOM	586	CD	PRO A	42153.361	10.395	-4.841	1.00	0.00	C
	ATOM	587	HA	PRO A	42155.484	12.233	-3.448	1.00	0.00	H
	ATOM	588	1HB	PRO A	42155.874	10.911	-6.081	1.00	0.00	H
	ATOM	589	2HB	PRO A	42156.642	10.573	-4.526	1.00	0.00	H
25	ATOM	590	1HG	PRO A	42154.776	8.942	-5.499	1.00	0.00	H
	ATOM	591	2HG	PRO A	42154.848	9.311	-3.765	1.00	0.00	H
	ATOM	592	1HD	PRO A	42152.996	10.381	-5.857	1.00	0.00	H
	ATOM	593	2HD	PRO A	42152.653	9.922	-4.176	1.00	0.00	H
	ATOM	594	N	PRO A	43156.595	13.876	-5.121	1.00	0.00	N

	ATOM	595	CA	PRO A	43157.024	15.037	-5.905	1.00	0.00	C
	ATOM	596	C	PRO A	43157.402	14.663	-7.333	1.00	0.00	C
	ATOM	597	O	PRO A	43158.567	14.392	-7.627	1.00	0.00	O
	ATOM	598	CB	PRO A	43158.249	15.545	-5.146	1.00	0.00	C
5	ATOM	599	CG	PRO A	43158.788	14.344	-4.449	1.00	0.00	C
	ATOM	600	CD	PRO A	43157.597	13.489	-4.110	1.00	0.00	C
	ATOM	601	HA	PRO A	43156.264	15.804	-5.924	1.00	0.00	H
	ATOM	602	1HB	PRO A	43158.965	15.950	-5.847	1.00	0.00	H
	ATOM	603	2HB	PRO A	43157.951	16.307	-4.443	1.00	0.00	H
10	ATOM	604	1HG	PRO A	43159.457	13.808	-5.107	1.00	0.00	H
	ATOM	605	2HG	PRO A	43159.304	14.642	-3.549	1.00	0.00	H
	ATOM	606	1HD	PRO A	43157.847	12.442	-4.196	1.00	0.00	H
	ATOM	607	2HD	PRO A	43157.244	13.713	-3.114	1.00	0.00	H
	ATOM	608	N	GLY A	44156.412	14.650	-8.219	1.00	0.00	N
15	ATOM	609	CA	GLY A	44156.666	14.309	-9.605	1.00	0.00	C
	ATOM	610	C	GLY A	44155.424	13.817	-10.320	1.00	0.00	C
	ATOM	611	O	GLY A	44155.089	14.302	-11.401	1.00	0.00	O
	ATOM	612	H	GLY A	44155.503	14.876	-7.929	1.00	0.00	H
	ATOM	613	1HA	GLY A	44157.039	15.183	-10.117	1.00	0.00	H
20	ATOM	614	2HA	GLY A	44157.418	13.535	-9.641	1.00	0.00	H
	ATOM	615	N	LEU A	45154.738	12.852	-9.716	1.00	0.00	N
	ATOM	616	CA	LEU A	45153.525	12.298	-10.306	1.00	0.00	C
	ATOM	617	C	LEU A	45152.337	12.469	-9.368	1.00	0.00	C
	ATOM	618	O	LEU A	45152.290	11.867	-8.297	1.00	0.00	O
25	ATOM	619	CB	LEU A	45153.722	10.815	-10.630	1.00	0.00	C
	ATOM	620	CG	LEU A	45154.338	9.984	-9.503	1.00	0.00	C
	ATOM	621	CD1	LEU A	45154.029	8.505	-9.697	1.00	0.00	C
	ATOM	622	CD2	LEU A	45155.842	10.216	-9.432	1.00	0.00	C
	ATOM	623	H	LEU A	45155.053	12.507	-8.852	1.00	0.00	H

	ATOM	624	HA	LEU A	45153.326	12.833	-11.222	1.00	0.00	H
	ATOM	625	1HB	LEU A	45152.760	10.391	-10.877	1.00	0.00	H
	ATOM	626	2HB	LEU A	45154.364	10.739	-11.495	1.00	0.00	H
	ATOM	627	HG	LEU A	45153.907	10.292	-8.561	1.00	0.00	H
5	ATOM	628	1HD1	LEU A	45153.531	8.361	-10.644	1.00	0.00	H
	ATOM	629	2HD1	LEU A	45153.386	8.164	-8.898	1.00	0.00	H
	ATOM	630	3HD1	LEU A	45154.949	7.939	-9.684	1.00	0.00	H
	ATOM	631	1HD2	LEU A	45156.072	10.818	-8.566	1.00	0.00	H
	ATOM	632	2HD2	LEU A	45156.170	10.728	-10.324	1.00	0.00	H
10	ATOM	633	3HD2	LEU A	45156.351	9.266	-9.355	1.00	0.00	H
	ATOM	634	N	ASN A	46151.375	13.292	-9.776	1.00	0.00	N
	ATOM	635	CA	ASN A	46150.192	13.528	-8.962	1.00	0.00	C
	ATOM	636	C	ASN A	46149.268	12.316	-9.000	1.00	0.00	C
	ATOM	637	O	ASN A	46148.624	12.044	-10.013	1.00	0.00	O
15	ATOM	638	CB	ASN A	46149.446	14.769	-9.454	1.00	0.00	C
	ATOM	639	CG	ASN A	46148.709	15.484	-8.339	1.00	0.00	C
	ATOM	640	OD1	ASN A	46147.479	15.539	-8.328	1.00	0.00	O
	ATOM	641	ND2	ASN A	46149.460	16.036	-7.393	1.00	0.00	N
	ATOM	642	H	ASN A	46151.462	13.744	-10.641	1.00	0.00	H
20	ATOM	643	HA	ASN A	46150.513	13.691	-7.944	1.00	0.00	H
	ATOM	644	1HB	ASN A	46150.154	15.457	-9.891	1.00	0.00	H
	ATOM	645	2HB	ASN A	46148.727	14.474	-10.206	1.00	0.00	H
	ATOM	646	1HD2	ASN A	46150.433	15.953	-7.468	1.00	0.00	H
	ATOM	647	2HD2	ASN A	46149.009	16.505	-6.660	1.00	0.00	H
25	ATOM	648	N	GLU A	47149.212	11.591	-7.889	1.00	0.00	N
	ATOM	649	CA	GLU A	47148.370	10.404	-7.789	1.00	0.00	C
	ATOM	650	C	GLU A	47148.235	9.958	-6.339	1.00	0.00	C
	ATOM	651	O	GLU A	47149.230	9.655	-5.679	1.00	0.00	O
	ATOM	652	CB	GLU A	47148.948	9.266	-8.634	1.00	0.00	C

	ATOM	653	CG	GLU A	47150.467	9.182	-8.595	1.00	0.00	C
	ATOM	654	CD	GLU A	47151.033	8.332	-9.715	1.00	0.00	C
	ATOM	655	OE1	GLU A	47151.096	8.825	-10.861	1.00	0.00	O
	ATOM	656	OE2	GLU A	47151.415	7.173	-9.446	1.00	0.00	O
5	ATOM	657	H	GLU A	47149.752	11.859	-7.117	1.00	0.00	H
	ATOM	658	HA	GLU A	47147.392	10.660	-8.167	1.00	0.00	H
	ATOM	659	1HB	GLU A	47148.550	8.329	-8.275	1.00	0.00	H
	ATOM	660	2HB	GLU A	47148.645	9.405	-9.662	1.00	0.00	H
	ATOM	661	1HG	GLU A	47150.872	10.179	-8.681	1.00	0.00	H
10	ATOM	662	2HG	GLU A	47150.768	8.755	-7.650	1.00	0.00	H
	ATOM	663	N	VAL A	48147.003	9.912	-5.846	1.00	0.00	N
	ATOM	664	CA	VAL A	48146.751	9.495	-4.473	1.00	0.00	C
	ATOM	665	C	VAL A	48147.166	8.044	-4.268	1.00	0.00	C
	ATOM	666	O	VAL A	48146.436	7.121	-4.633	1.00	0.00	O
15	ATOM	667	CB	VAL A	48145.266	9.655	-4.096	1.00	0.00	C
	ATOM	668	CG1	VAL A	48145.057	9.375	-2.616	1.00	0.00	C
	ATOM	669	CG2	VAL A	48144.768	11.047	-4.457	1.00	0.00	C
	ATOM	670	H	VAL A	48146.248	10.161	-6.418	1.00	0.00	H
	ATOM	671	HA	VAL A	48147.340	10.123	-3.819	1.00	0.00	H
20	ATOM	672	HB	VAL A	48144.693	8.934	-4.661	1.00	0.00	H
	ATOM	673	1HG1	VAL A	48145.200	8.321	-2.425	1.00	0.00	H
	ATOM	674	2HG1	VAL A	48144.055	9.659	-2.334	1.00	0.00	H
	ATOM	675	3HG1	VAL A	48145.769	9.945	-2.037	1.00	0.00	H
	ATOM	676	1HG2	VAL A	48145.443	11.500	-5.168	1.00	0.00	H
25	ATOM	677	2HG2	VAL A	48144.724	11.656	-3.566	1.00	0.00	H
	ATOM	678	3HG2	VAL A	48143.783	10.975	-4.893	1.00	0.00	H
	ATOM	679	N	LEU A	49148.343	7.846	-3.684	1.00	0.00	N
	ATOM	680	CA	LEU A	49148.856	6.506	-3.434	1.00	0.00	C
	ATOM	681	C	LEU A	49148.772	6.164	-1.953	1.00	0.00	C

	ATOM	682	O	LEU A	49149.439	6.784	-1.124	1.00	0.00	O
	ATOM	683	CB	LEU A	49150.304	6.392	-3.915	1.00	0.00	C
	ATOM	684	CG	LEU A	49150.503	6.575	-5.421	1.00	0.00	C
	ATOM	685	CD1	LEU A	49151.948	6.937	-5.729	1.00	0.00	C
5	ATOM	686	CD2	LEU A	49150.097	5.313	-6.168	1.00	0.00	C
	ATOM	687	H	LEU A	49148.880	8.621	-3.416	1.00	0.00	H
	ATOM	688	HA	LEU A	49148.246	5.808	-3.988	1.00	0.00	H
	ATOM	689	1HB	LEU A	49150.892	7.140	-3.402	1.00	0.00	H
	ATOM	690	2HB	LEU A	49150.677	5.416	-3.642	1.00	0.00	H
10	ATOM	691	HG	LEU A	49149.875	7.384	-5.765	1.00	0.00	H
	ATOM	692	1HD1	LEU A	49151.984	7.547	-6.619	1.00	0.00	H
	ATOM	693	2HD1	LEU A	49152.519	6.035	-5.886	1.00	0.00	H
	ATOM	694	3HD1	LEU A	49152.366	7.487	-4.898	1.00	0.00	H
	ATOM	695	1HD2	LEU A	49149.362	4.774	-5.589	1.00	0.00	H
15	ATOM	696	2HD2	LEU A	49150.966	4.689	-6.318	1.00	0.00	H
	ATOM	697	3HD2	LEU A	49149.676	5.581	-7.125	1.00	0.00	H
	ATOM	698	N	ALA A	50147.948	5.176	-1.625	1.00	0.00	N
	ATOM	699	CA	ALA A	50147.780	4.758	-0.242	1.00	0.00	C
	ATOM	700	C	ALA A	50148.746	3.631	0.112	1.00	0.00	C
20	ATOM	701	O	ALA A	50148.657	2.531	-0.433	1.00	0.00	O
	ATOM	702	CB	ALA A	50146.342	4.325	0.007	1.00	0.00	C
	ATOM	703	H	ALA A	50147.443	4.719	-2.329	1.00	0.00	H
	ATOM	704	HA	ALA A	50147.989	5.610	0.387	1.00	0.00	H
	ATOM	705	1HB	ALA A	50145.712	4.691	-0.789	1.00	0.00	H
25	ATOM	706	2HB	ALA A	50146.003	4.728	0.949	1.00	0.00	H
	ATOM	707	3HB	ALA A	50146.292	3.246	0.039	1.00	0.00	H
	ATOM	708	N	GLY A	51149.668	3.914	1.025	1.00	0.00	N
	ATOM	709	CA	GLY A	51150.637	2.915	1.434	1.00	0.00	C
	ATOM	710	C	GLY A	51150.011	1.789	2.232	1.00	0.00	C



	ATOM	711	O	GLY A	51149.679	1.961	3.406	1.00	0.00	O
	ATOM	712	H	GLY A	51149.691	4.808	1.425	1.00	0.00	H
	ATOM	713	1HA	GLY A	51151.104	2.499	0.553	1.00	0.00	H
	ATOM	714	2HA	GLY A	51151.396	3.391	2.039	1.00	0.00	H
5	ATOM	715	N	LEU A	52149.848	0.634	1.596	1.00	0.00	N
	ATOM	716	CA	LEU A	52149.257	-0.524	2.256	1.00	0.00	C
	ATOM	717	C	LEU A	52150.331	-1.381	2.919	1.00	0.00	C
	ATOM	718	O	LEU A	52151.450	-1.488	2.418	1.00	0.00	O
	ATOM	719	CB	LEU A	52148.468	-1.365	1.248	1.00	0.00	C
10	ATOM	720	CG	LEU A	52147.201	-0.702	0.703	1.00	0.00	C
	ATOM	721	CD1	LEU A	52146.592	-1.549	-0.403	1.00	0.00	C
	ATOM	722	CD2	LEU A	52146.196	-0.478	1.823	1.00	0.00	C
	ATOM	723	H	LEU A	52150.133	0.558	0.662	1.00	0.00	H
	ATOM	724	HA	LEU A	52148.581	-0.163	3.016	1.00	0.00	H
15	ATOM	725	1HB	LEU A	52149.119	-1.592	0.416	1.00	0.00	H
	ATOM	726	2HB	LEU A	52148.187	-2.291	1.726	1.00	0.00	H
	ATOM	727	HG	LEU A	52147.458	0.260	0.284	1.00	0.00	H
	ATOM	728	1HD1	LEU A	52146.403	-2.546	-0.032	1.00	0.00	H
	ATOM	729	2HD1	LEU A	52147.276	-1.599	-1.237	1.00	0.00	H
20	ATOM	730	3HD1	LEU A	52145.663	-1.103	-0.726	1.00	0.00	H
	ATOM	731	1HD2	LEU A	52146.362	-1.202	2.607	1.00	0.00	H
	ATOM	732	2HD2	LEU A	52145.194	-0.592	1.434	1.00	0.00	H
	ATOM	733	3HD2	LEU A	52146.316	0.519	2.220	1.00	0.00	H
	ATOM	734	N	GLU A	53149.982	-1.988	4.049	1.00	0.00	N
25	ATOM	735	CA	GLU A	53150.916	-2.836	4.781	1.00	0.00	C
	ATOM	736	C	GLU A	53150.448	-4.287	4.782	1.00	0.00	C
	ATOM	737	O	GLU A	53149.515	-4.649	5.499	1.00	0.00	O
	ATOM	738	CB	GLU A	53151.069	-2.336	6.219	1.00	0.00	C
	ATOM	739	CG	GLU A	53152.057	-3.146	7.042	1.00	0.00	C

	ATOM	740	CD	GLU	A	53151.571	-3.395	8.457	1.00	0.00	C
	ATOM	741	OE1	GLU	A	53151.282	-4.563	8.789	1.00	0.00	O
	ATOM	742	OE2	GLU	A	53151.482	-2.420	9.234	1.00	0.00	O
	ATOM	743	H	GLU	A	53149.075	-1.864	4.398	1.00	0.00	H
5	ATOM	744	HA	GLU	A	53151.874	-2.779	4.286	1.00	0.00	H
	ATOM	745	1HB	GLU	A	53151.407	-1.311	6.198	1.00	0.00	H
	ATOM	746	2HB	GLU	A	53150.107	-2.379	6.707	1.00	0.00	H
	ATOM	747	1HG	GLU	A	53152.212	-4.099	6.560	1.00	0.00	H
	ATOM	748	2HG	GLU	A	53152.994	-2.610	7.088	1.00	0.00	H
10	ATOM	749	N	LEU	A	54151.103	-5.114	3.974	1.00	0.00	N
	ATOM	750	CA	LEU	A	54150.754	-6.527	3.881	1.00	0.00	C
	ATOM	751	C	LEU	A	54151.046	-7.247	5.194	1.00	0.00	C
	ATOM	752	O	LEU	A	54152.057	-6.982	5.846	1.00	0.00	O
	ATOM	753	CB	LEU	A	54151.524	-7.191	2.739	1.00	0.00	C
15	ATOM	754	CG	LEU	A	54151.324	-6.552	1.364	1.00	0.00	C
	ATOM	755	CD1	LEU	A	54152.297	-7.140	0.354	1.00	0.00	C
	ATOM	756	CD2	LEU	A	54149.889	-6.740	0.895	1.00	0.00	C
	ATOM	757	H	LEU	A	54151.838	-4.767	3.426	1.00	0.00	H
	ATOM	758	HA	LEU	A	54149.696	-6.594	3.676	1.00	0.00	H
20	ATOM	759	1HB	LEU	A	54152.578	-7.160	2.978	1.00	0.00	H
	ATOM	760	2HB	LEU	A	54151.219	-8.225	2.679	1.00	0.00	H
	ATOM	761	HG	LEU	A	54151.517	-5.492	1.435	1.00	0.00	H
	ATOM	762	1HD1	LEU	A	54152.308	-8.216	0.449	1.00	0.00	H
	ATOM	763	2HD1	LEU	A	54153.288	-6.753	0.542	1.00	0.00	H
25	ATOM	764	3HD1	LEU	A	54151.988	-6.870	-0.644	1.00	0.00	H
	ATOM	765	1HD2	LEU	A	54149.541	-7.721	1.183	1.00	0.00	H
	ATOM	766	2HD2	LEU	A	54149.846	-6.644	-0.180	1.00	0.00	H
	ATOM	767	3HD2	LEU	A	54149.260	-5.988	1.349	1.00	0.00	H
	ATOM	768	N	GLU	A	55150.156	-8.157	5.576	1.00	0.00	N

	ATOM	769	CA	GLU A	55150.320	-8.914	6.811	1.00	0.00	C
	ATOM	770	C	GLU A	55151.395	-9.986	6.655	1.00	0.00	C
	ATOM	771	O	GLU A	55152.090	-10.325	7.612	1.00	0.00	O
	ATOM	772	CB	GLU A	55148.994	-9.562	7.217	1.00	0.00	C
5	ATOM	773	CG	GLU A	55147.871	-8.562	7.436	1.00	0.00	C
	ATOM	774	CD	GLU A	55147.824	-8.042	8.859	1.00	0.00	C
	ATOM	775	OE1	GLU A	55146.921	-8.458	9.615	1.00	0.00	O
	ATOM	776	OE2	GLU A	55148.691	-7.217	9.219	1.00	0.00	O
	ATOM	777	H	GLU A	55149.372	-8.323	5.014	1.00	0.00	H
10	ATOM	778	HA	GLU A	55150.625	-8.225	7.584	1.00	0.00	H
	ATOM	779	1HB	GLU A	55148.689	-10.248	6.441	1.00	0.00	H
	ATOM	780	2HB	GLU A	55149.142	-10.112	8.134	1.00	0.00	H
	ATOM	781	1HG	GLU A	55148.015	-7.726	6.769	1.00	0.00	H
	ATOM	782	2HG	GLU A	55146.930	-9.042	7.213	1.00	0.00	H
15	ATOM	783	N	ASP A	56151.525	-10.513	5.442	1.00	0.00	N
	ATOM	784	CA	ASP A	56152.516	-11.547	5.161	1.00	0.00	C
	ATOM	785	C	ASP A	56153.811	-10.931	4.642	1.00	0.00	C
	ATOM	786	O	ASP A	56153.807	-10.183	3.665	1.00	0.00	O
	ATOM	787	CB	ASP A	56151.967	-12.544	4.140	1.00	0.00	C
20	ATOM	788	CG	ASP A	56152.412	-13.965	4.423	1.00	0.00	C
	ATOM	789	OD1	ASP A	56153.373	-14.428	3.773	1.00	0.00	O
	ATOM	790	OD2	ASP A	56151.800	-14.618	5.295	1.00	0.00	O
	ATOM	791	H	ASP A	56150.941	-10.202	4.719	1.00	0.00	H
	ATOM	792	HA	ASP A	56152.723	-12.067	6.085	1.00	0.00	H
25	ATOM	793	1HB	ASP A	56150.887	-12.516	4.162	1.00	0.00	H
	ATOM	794	2HB	ASP A	56152.310	-12.268	3.155	1.00	0.00	H
	ATOM	795	N	GLU A	57154.919	-11.252	5.303	1.00	0.00	N
	ATOM	796	CA	GLU A	57156.222	-10.731	4.908	1.00	0.00	C
	ATOM	797	C	GLU A	57156.628	-11.260	3.536	1.00	0.00	C

	ATOM	798	O	GLU A	57157.106	-12.388	3.411	1.00	0.00	O
	ATOM	799	CB	GLU A	57157.282	-11.108	5.946	1.00	0.00	C
	ATOM	800	CG	GLU A	57157.377	-10.126	7.102	1.00	0.00	C
	ATOM	801	CD	GLU A	57158.593	-10.371	7.975	1.00	0.00	C
5	ATOM	802	OE1	GLU A	57158.766	-11.514	8.445	1.00	0.00	O
	ATOM	803	OE2	GLU A	57159.372	-9.418	8.188	1.00	0.00	O
	ATOM	804	H	GLU A	57154.858	-11.854	6.074	1.00	0.00	H
	ATOM	805	HA	GLU A	57156.148	-9.655	4.858	1.00	0.00	H
	ATOM	806	1HB	GLU A	57157.044	-12.082	6.347	1.00	0.00	H
10	ATOM	807	2HB	GLU A	57158.245	-11.154	5.460	1.00	0.00	H
	ATOM	808	1HG	GLU A	57157.436	-9.124	6.703	1.00	0.00	H
	ATOM	809	2HG	GLU A	57156.490	-10.219	7.711	1.00	0.00	H
	ATOM	810	N	CYS A	58156.432	-10.439	2.510	1.00	0.00	N
	ATOM	811	CA	CYS A	58156.777	-10.825	1.146	1.00	0.00	C
15	ATOM	812	C	CYS A	58158.157	-10.301	0.765	1.00	0.00	C
	ATOM	813	O	CYS A	58158.426	-9.103	0.859	1.00	0.00	O
	ATOM	814	CB	CYS A	58155.730	-10.297	0.164	1.00	0.00	C
	ATOM	815	SG	CYS A	58155.833	-11.026	-1.487	1.00	0.00	S
	ATOM	816	H	CYS A	58156.047	-9.553	2.673	1.00	0.00	H
20	ATOM	817	HA	CYS A	58156.789	-11.903	1.100	1.00	0.00	H
	ATOM	818	1HB	CYS A	58154.745	-10.506	0.553	1.00	0.00	H
	ATOM	819	2HB	CYS A	58155.851	-9.229	0.060	1.00	0.00	H
	ATOM	820	HG	CYS A	58155.366	-10.449	-2.096	1.00	0.00	H
	ATOM	821	N	ALA A	59159.031	-11.207	0.335	1.00	0.00	N
25	ATOM	822	CA	ALA A	59160.383	-10.836	-0.060	1.00	0.00	C
	ATOM	823	C	ALA A	59160.374	-10.001	-1.337	1.00	0.00	C
	ATOM	824	O	ALA A	59160.036	-10.496	-2.411	1.00	0.00	O
	ATOM	825	CB	ALA A	59161.238	-12.081	-0.249	1.00	0.00	C
	ATOM	826	H	ALA A	59158.758	-12.146	0.282	1.00	0.00	H

	ATOM	827	HA	ALA A	59160.815	-10.250	0.738	1.00	0.00	H
	ATOM	828	1HB	ALA A	59161.020	-12.524	-1.210	1.00	0.00	H
	ATOM	829	2HB	ALA A	59161.015	-12.792	0.533	1.00	0.00	H
	ATOM	830	3HB	ALA A	59162.282	-11.811	-0.205	1.00	0.00	H
5	ATOM	831	N	GLY A	60160.746	-8.732	-1.209	1.00	0.00	N
	ATOM	832	CA	GLY A	60160.773	-7.848	-2.360	1.00	0.00	C
	ATOM	833	C	GLY A	60160.174	-6.487	-2.062	1.00	0.00	C
	ATOM	834	O	GLY A	60160.550	-5.488	-2.673	1.00	0.00	O
	ATOM	835	H	GLY A	60161.005	-8.392	-0.328	1.00	0.00	H
10	ATOM	836	1HA	GLY A	60161.797	-7.717	-2.677	1.00	0.00	H
	ATOM	837	2HA	GLY A	60160.215	-8.306	-3.165	1.00	0.00	H
	ATOM	838	N	CYS A	61159.239	-6.449	-1.118	1.00	0.00	N
	ATOM	839	CA	CYS A	61158.586	-5.201	-0.739	1.00	0.00	C
	ATOM	840	C	CYS A	61159.505	-4.349	0.132	1.00	0.00	C
15	ATOM	841	O	CYS A	61160.621	-4.755	0.456	1.00	0.00	O
	ATOM	842	CB	CYS A	61157.281	-5.490	0.005	1.00	0.00	C
	ATOM	843	SG	CYS A	61156.114	-6.515	-0.920	1.00	0.00	S
	ATOM	844	H	CYS A	61158.981	-7.280	-0.667	1.00	0.00	H
	ATOM	845	HA	CYS A	61158.361	-4.657	-1.644	1.00	0.00	H
20	ATOM	846	1HB	CYS A	61157.507	-6.002	0.928	1.00	0.00	H
	ATOM	847	2HB	CYS A	61156.791	-4.554	0.230	1.00	0.00	H
	ATOM	848	HG	CYS A	61155.351	-6.675	-0.360	1.00	0.00	H
	ATOM	849	N	THR A	62159.026	-3.168	0.508	1.00	0.00	N
	ATOM	850	CA	THR A	62159.805	-2.260	1.342	1.00	0.00	C
25	ATOM	851	C	THR A	62159.217	-2.171	2.746	1.00	0.00	C
	ATOM	852	O	THR A	62158.231	-2.839	3.059	1.00	0.00	O
	ATOM	853	CB	THR A	62159.854	-0.868	0.708	1.00	0.00	C
	ATOM	854	OG1	THR A	62158.550	-0.421	0.380	1.00	0.00	O
	ATOM	855	CG2	THR A	62160.689	-0.814	-0.553	1.00	0.00	C

	ATOM	856	H	THR	A	62158.130	-2.901	0.218	1.00	0.00	H
	ATOM	857	HA	THR	A	62160.810	-2.650	1.410	1.00	0.00	H
	ATOM	858	HB	THR	A	62160.282	-0.176	1.418	1.00	0.00	H
	ATOM	859	HG1	THR	A	62158.188	-0.974	-0.315	1.00	0.00	H
5	ATOM	860	1HG2	THR	A	62160.904	-1.819	-0.886	1.00	0.00	H
	ATOM	861	2HG2	THR	A	62161.615	-0.296	-0.349	1.00	0.00	H
	ATOM	862	3HG2	THR	A	62160.144	-0.288	-1.323	1.00	0.00	H
	ATOM	863	N	ASP	A	63159.827	-1.342	3.587	1.00	0.00	N
	ATOM	864	CA	ASP	A	63159.363	-1.166	4.958	1.00	0.00	C
10	ATOM	865	C	ASP	A	63158.671	0.182	5.130	1.00	0.00	C
	ATOM	866	O	ASP	A	63158.779	0.818	6.178	1.00	0.00	O
	ATOM	867	CB	ASP	A	63160.536	-1.278	5.934	1.00	0.00	C
	ATOM	868	CG	ASP	A	63161.601	-0.229	5.680	1.00	0.00	C
	ATOM	869	OD1	ASP	A	63162.691	-0.596	5.192	1.00	0.00	O
15	ATOM	870	OD2	ASP	A	63161.345	0.958	5.968	1.00	0.00	O
	ATOM	871	H	ASP	A	63160.608	-0.838	3.278	1.00	0.00	H
	ATOM	872	HA	ASP	A	63158.653	-1.952	5.171	1.00	0.00	H
	ATOM	873	1HB	ASP	A	63160.170	-1.156	6.942	1.00	0.00	H
	ATOM	874	2HB	ASP	A	63160.987	-2.255	5.834	1.00	0.00	H
20	ATOM	875	N	GLY	A	64157.960	0.612	4.093	1.00	0.00	N
	ATOM	876	CA	GLY	A	64157.260	1.882	4.148	1.00	0.00	C
	ATOM	877	C	GLY	A	64158.013	2.990	3.440	1.00	0.00	C
	ATOM	878	O	GLY	A	64158.125	4.102	3.956	1.00	0.00	O
	ATOM	879	H	GLY	A	64157.909	0.062	3.282	1.00	0.00	H
25	ATOM	880	1HA	GLY	A	64156.291	1.767	3.687	1.00	0.00	H
	ATOM	881	2HA	GLY	A	64157.123	2.160	5.183	1.00	0.00	H
	ATOM	882	N	THR	A	65158.529	2.687	2.253	1.00	0.00	N
	ATOM	883	CA	THR	A	65159.276	3.667	1.472	1.00	0.00	C
	ATOM	884	C	THR	A	65158.845	3.638	0.009	1.00	0.00	C

	ATOM	885	O	THR A	65158.797	2.578	-0.614	1.00	0.00	O
	ATOM	886	CB	THR A	65160.778	3.398	1.578	1.00	0.00	C
	ATOM	887	OG1	THR A	65161.034	2.006	1.641	1.00	0.00	O
	ATOM	888	CG2	THR A	65161.415	4.039	2.791	1.00	0.00	C
5	ATOM	889	H	THR A	65158.406	1.784	1.894	1.00	0.00	H
	ATOM	890	HA	THR A	65159.064	4.645	1.877	1.00	0.00	H
	ATOM	891	HB	THR A	65161.266	3.793	0.700	1.00	0.00	H
	ATOM	892	HG1	THR A	65160.910	1.618	0.773	1.00	0.00	H
	ATOM	893	1HG2	THR A	65162.234	3.423	3.135	1.00	0.00	H
10	ATOM	894	2HG2	THR A	65160.681	4.133	3.577	1.00	0.00	H
	ATOM	895	3HG2	THR A	65161.788	5.018	2.527	1.00	0.00	H
	ATOM	896	N	PHE A	66158.530	4.811	-0.533	1.00	0.00	N
	ATOM	897	CA	PHE A	66158.103	4.921	-1.923	1.00	0.00	C
	ATOM	898	C	PHE A	66159.010	5.872	-2.697	1.00	0.00	C
15	ATOM	899	O	PHE A	66159.157	7.039	-2.334	1.00	0.00	O
	ATOM	900	CB	PHE A	66156.655	5.406	-1.996	1.00	0.00	C
	ATOM	901	CG	PHE A	66155.978	5.083	-3.298	1.00	0.00	C
	ATOM	902	CD1	PHE A	66155.722	3.769	-3.654	1.00	0.00	C
	ATOM	903	CD2	PHE A	66155.598	6.094	-4.166	1.00	0.00	C
20	ATOM	904	CE1	PHE A	66155.100	3.468	-4.851	1.00	0.00	C
	ATOM	905	CE2	PHE A	66154.976	5.801	-5.364	1.00	0.00	C
	ATOM	906	CZ	PHE A	66154.726	4.486	-5.707	1.00	0.00	C
	ATOM	907	H	PHE A	66158.588	5.621	0.015	1.00	0.00	H
	ATOM	908	HA	PHE A	66158.168	3.939	-2.369	1.00	0.00	H
25	ATOM	909	1HB	PHE A	66156.086	4.943	-1.204	1.00	0.00	H
	ATOM	910	2HB	PHE A	66156.635	6.478	-1.867	1.00	0.00	H
	ATOM	911	HD1	PHE A	66156.014	2.973	-2.985	1.00	0.00	H
	ATOM	912	HD2	PHE A	66155.792	7.123	-3.898	1.00	0.00	H
	ATOM	913	HE1	PHE A	66154.907	2.440	-5.117	1.00	0.00	H

	ATOM	914	HE2	PHE	A	66154.684	6.598	-6.032	1.00	0.00	H
	ATOM	915	HZ	PHE	A	66154.240	4.254	-6.643	1.00	0.00	H
	ATOM	916	N	ARG	A	67159.615	5.366	-3.767	1.00	0.00	N
	ATOM	917	CA	ARG	A	67160.508	6.172	-4.592	1.00	0.00	C
5	ATOM	918	C	ARG	A	67161.689	6.684	-3.776	1.00	0.00	C
	ATOM	919	O	ARG	A	67162.217	7.765	-4.039	1.00	0.00	O
	ATOM	920	CB	ARG	A	67159.746	7.348	-5.204	1.00	0.00	C
	ATOM	921	CG	ARG	A	67158.677	6.930	-6.200	1.00	0.00	C
	ATOM	922	CD	ARG	A	67158.317	8.067	-7.143	1.00	0.00	C
10	ATOM	923	NE	ARG	A	67159.015	7.958	-8.422	1.00	0.00	N
	ATOM	924	CZ	ARG	A	67159.160	8.970	-9.274	1.00	0.00	C
	ATOM	925	NH1	ARG	A	67158.658	10.165	-8.989	1.00	0.00	N
	ATOM	926	NH2	ARG	A	67159.808	8.786	-10.417	1.00	0.00	N
	ATOM	927	H	ARG	A	67159.458	4.429	-4.006	1.00	0.00	H
15	ATOM	928	HA	ARG	A	67160.881	5.543	-5.387	1.00	0.00	H
	ATOM	929	1HB	ARG	A	67159.271	7.906	-4.411	1.00	0.00	H
	ATOM	930	2HB	ARG	A	67160.449	7.991	-5.714	1.00	0.00	H
	ATOM	931	1HG	ARG	A	67159.045	6.097	-6.780	1.00	0.00	H
	ATOM	932	2HG	ARG	A	67157.792	6.629	-5.657	1.00	0.00	H
20	ATOM	933	1HD	ARG	A	67157.253	8.045	-7.322	1.00	0.00	H
	ATOM	934	2HD	ARG	A	67158.585	9.003	-6.675	1.00	0.00	H
	ATOM	935	HE	ARG	A	67159.396	7.087	-8.657	1.00	0.00	H
	ATOM	936	1HH1	ARG	A	67158.168	10.311	-8.129	1.00	0.00	H
	ATOM	937	2HH1	ARG	A	67158.771	10.921	-9.634	1.00	0.00	H
25	ATOM	938	1HH2	ARG	A	67160.188	7.888	-10.637	1.00	0.00	H
	ATOM	939	2HH2	ARG	A	67159.917	9.546	-11.058	1.00	0.00	H
	ATOM	940	N	GLY	A	68162.100	5.902	-2.783	1.00	0.00	N
	ATOM	941	CA	GLY	A	68163.216	6.295	-1.942	1.00	0.00	C
	ATOM	942	C	GLY	A	68162.847	7.392	-0.963	1.00	0.00	C



	ATOM	943	O	GLY	A	68163.696	8.189	-0.564	1.00	0.00	O
	ATOM	944	H	GLY	A	68161.641	5.052	-2.619	1.00	0.00	H
	ATOM	945	1HA	GLY	A	68163.556	5.433	-1.389	1.00	0.00	H
	ATOM	946	2HA	GLY	A	68164.020	6.645	-2.572	1.00	0.00	H
5	ATOM	947	N	THR	A	69161.577	7.433	-0.576	1.00	0.00	N
	ATOM	948	CA	THR	A	69161.096	8.441	0.363	1.00	0.00	C
	ATOM	949	C	THR	A	69160.235	7.806	1.449	1.00	0.00	C
	ATOM	950	O	THR	A	69159.141	7.310	1.178	1.00	0.00	O
	ATOM	951	CB	THR	A	69160.297	9.515	-0.375	1.00	0.00	C
10	ATOM	952	OG1	THR	A	69160.987	9.948	-1.533	1.00	0.00	O
	ATOM	953	CG2	THR	A	69160.010	10.737	0.472	1.00	0.00	C
	ATOM	954	H	THR	A	69160.947	6.771	-0.928	1.00	0.00	H
	ATOM	955	HA	THR	A	69161.957	8.900	0.825	1.00	0.00	H
	ATOM	956	HB	THR	A	69159.349	9.096	-0.682	1.00	0.00	H
15	ATOM	957	HG1	THR	A	69161.176	9.193	-2.095	1.00	0.00	H
	ATOM	958	1HG2	THR	A	69159.249	11.336	-0.006	1.00	0.00	H
	ATOM	959	2HG2	THR	A	69160.913	11.319	0.579	1.00	0.00	H
	ATOM	960	3HG2	THR	A	69159.665	10.425	1.447	1.00	0.00	H
	ATOM	961	N	ARG	A	70160.735	7.825	2.680	1.00	0.00	N
20	ATOM	962	CA	ARG	A	70160.011	7.251	3.809	1.00	0.00	C
	ATOM	963	C	ARG	A	70158.731	8.032	4.087	1.00	0.00	C
	ATOM	964	O	ARG	A	70158.765	9.242	4.308	1.00	0.00	O
	ATOM	965	CB	ARG	A	70160.897	7.239	5.057	1.00	0.00	C
	ATOM	966	CG	ARG	A	70160.228	6.616	6.272	1.00	0.00	C
25	ATOM	967	CD	ARG	A	70160.684	7.279	7.561	1.00	0.00	C
	ATOM	968	NE	ARG	A	70162.045	6.890	7.924	1.00	0.00	N
	ATOM	969	CZ	ARG	A	70162.802	7.562	8.789	1.00	0.00	C
	ATOM	970	NH1	ARG	A	70162.336	8.654	9.381	1.00	0.00	N
	ATOM	971	NH2	ARG	A	70164.028	7.139	9.064	1.00	0.00	N

	ATOM	972	H	ARG A	70161.612	8.235	2.834	1.00	0.00	H
	ATOM	973	HA	ARG A	70159.751	6.235	3.553	1.00	0.00	H
	ATOM	974	1HB	ARG A	70161.795	6.681	4.842	1.00	0.00	H
	ATOM	975	2HB	ARG A	70161.166	8.256	5.303	1.00	0.00	H
5	ATOM	976	1HG	ARG A	70159.158	6.731	6.180	1.00	0.00	H
	ATOM	977	2HG	ARG A	70160.477	5.566	6.309	1.00	0.00	H
	ATOM	978	1HD	ARG A	70160.650	8.351	7.431	1.00	0.00	H
	ATOM	979	2HD	ARG A	70160.013	6.992	8.356	1.00	0.00	H
	ATOM	980	HE	ARG A	70162.414	6.086	7.502	1.00	0.00	H
10	ATOM	981	1HH1	ARG A	70161.412	8.979	9.178	1.00	0.00	H
	ATOM	982	2HH1	ARG A	70162.909	9.154	10.030	1.00	0.00	H
	ATOM	983	1HH2	ARG A	70164.384	6.316	8.621	1.00	0.00	H
	ATOM	984	2HH2	ARG A	70164.597	7.643	9.714	1.00	0.00	H
	ATOM	985	N	TYR A	71157.602	7.330	4.076	1.00	0.00	N
15	ATOM	986	CA	TYR A	71156.310	7.957	4.327	1.00	0.00	C
	ATOM	987	C	TYR A	71155.770	7.560	5.696	1.00	0.00	C
	ATOM	988	O	TYR A	71155.270	8.400	6.446	1.00	0.00	O
	ATOM	989	CB	TYR A	71155.309	7.566	3.238	1.00	0.00	C
	ATOM	990	CG	TYR A	71155.424	8.400	1.981	1.00	0.00	C
20	ATOM	991	CD1	TYR A	71155.529	9.784	2.050	1.00	0.00	C
	ATOM	992	CD2	TYR A	71155.426	7.802	0.727	1.00	0.00	C
	ATOM	993	CE1	TYR A	71155.635	10.548	0.905	1.00	0.00	C
	ATOM	994	CE2	TYR A	71155.532	8.561	-0.424	1.00	0.00	C
	ATOM	995	CZ	TYR A	71155.635	9.933	-0.330	1.00	0.00	C
25	ATOM	996	OH	TYR A	71155.740	10.691	-1.473	1.00	0.00	O
	ATOM	997	H	TYR A	71157.639	6.368	3.893	1.00	0.00	H
	ATOM	998	HA	TYR A	71156.451	9.028	4.306	1.00	0.00	H
	ATOM	999	1HB	TYR A	71155.468	6.533	2.966	1.00	0.00	H
	ATOM	1000	2HB	TYR A	71154.306	7.681	3.623	1.00	0.00	H

	ATOM	1001	HD1	TYR	A	71155.529	10.262	3.018	1.00	0.00	H
	ATOM	1002	HD2	TYR	A	71155.344	6.728	0.657	1.00	0.00	H
	ATOM	1003	HE1	TYR	A	71155.716	11.623	0.978	1.00	0.00	H
	ATOM	1004	HE2	TYR	A	71155.531	8.078	-1.390	1.00	0.00	H
5	ATOM	1005	HH	TYR	A	71156.629	10.616	-1.827	1.00	0.00	H
	ATOM	1006	N	PHE	A	72155.873	6.274	6.017	1.00	0.00	N
	ATOM	1007	CA	PHE	A	72155.395	5.765	7.298	1.00	0.00	C
	ATOM	1008	C	PHE	A	72156.315	4.669	7.825	1.00	0.00	C
	ATOM	1009	O	PHE	A	72157.106	4.095	7.077	1.00	0.00	O
10	ATOM	1010	CB	PHE	A	72153.969	5.226	7.156	1.00	0.00	C
	ATOM	1011	CG	PHE	A	72153.833	4.157	6.110	1.00	0.00	C
	ATOM	1012	CD1	PHE	A	72153.929	2.818	6.453	1.00	0.00	C
	ATOM	1013	CD2	PHE	A	72153.609	4.491	4.785	1.00	0.00	C
	ATOM	1014	CE1	PHE	A	72153.804	1.832	5.493	1.00	0.00	C
15	ATOM	1015	CE2	PHE	A	72153.483	3.510	3.820	1.00	0.00	C
	ATOM	1016	CZ	PHE	A	72153.581	2.178	4.174	1.00	0.00	C
	ATOM	1017	H	PHE	A	72156.281	5.653	5.379	1.00	0.00	H
	ATOM	1018	HA	PHE	A	72155.392	6.585	8.001	1.00	0.00	H
	ATOM	1019	1HB	PHE	A	72153.655	4.809	8.101	1.00	0.00	H
20	ATOM	1020	2HB	PHE	A	72153.311	6.039	6.890	1.00	0.00	H
	ATOM	1021	HD1	PHE	A	72154.104	2.546	7.484	1.00	0.00	H
	ATOM	1022	HD2	PHE	A	72153.533	5.532	4.507	1.00	0.00	H
	ATOM	1023	HE1	PHE	A	72153.881	0.792	5.773	1.00	0.00	H
	ATOM	1024	HE2	PHE	A	72153.309	3.784	2.789	1.00	0.00	H
25	ATOM	1025	HZ	PHE	A	72153.483	1.410	3.423	1.00	0.00	H
	ATOM	1026	N	THR	A	73156.207	4.384	9.119	1.00	0.00	N
	ATOM	1027	CA	THR	A	73157.029	3.357	9.747	1.00	0.00	C
	ATOM	1028	C	THR	A	73156.250	2.054	9.899	1.00	0.00	C
	ATOM	1029	O	THR	A	73155.248	1.997	10.611	1.00	0.00	O

	ATOM	1030	CB	THR	A	73157.520	3.832	11.114	1.00	0.00	C
	ATOM	1031	OG1	THR	A	73156.507	4.562	11.785	1.00	0.00	O
	ATOM	1032	CG2	THR	A	73158.746	4.716	11.036	1.00	0.00	C
	ATOM	1033	H	THR	A	73155.558	4.877	9.665	1.00	0.00	H
5	ATOM	1034	HA	THR	A	73157.882	3.180	9.110	1.00	0.00	H
	ATOM	1035	HB	THR	A	73157.771	2.969	11.716	1.00	0.00	H
	ATOM	1036	HG1	THR	A	73156.474	4.291	12.706	1.00	0.00	H
	ATOM	1037	1HG2	THR	A	73159.529	4.199	10.501	1.00	0.00	H
	ATOM	1038	2HG2	THR	A	73159.086	4.949	12.034	1.00	0.00	H
10	ATOM	1039	3HG2	THR	A	73158.498	5.630	10.517	1.00	0.00	H
	ATOM	1040	N	CYS	A	74156.717	1.009	9.222	1.00	0.00	N
	ATOM	1041	CA	CYS	A	74156.065	-0.294	9.281	1.00	0.00	C
	ATOM	1042	C	CYS	A	74157.095	-1.417	9.320	1.00	0.00	C
	ATOM	1043	O	CYS	A	74158.301	-1.169	9.289	1.00	0.00	O
15	ATOM	1044	CB	CYS	A	74155.136	-0.478	8.080	1.00	0.00	C
	ATOM	1045	SG	CYS	A	74153.445	0.096	8.360	1.00	0.00	S
	ATOM	1046	H	CYS	A	74157.521	1.117	8.670	1.00	0.00	H
	ATOM	1047	HA	CYS	A	74155.478	-0.329	10.188	1.00	0.00	H
	ATOM	1048	1HB	CYS	A	74155.534	0.072	7.241	1.00	0.00	H
20	ATOM	1049	2HB	CYS	A	74155.091	-1.527	7.828	1.00	0.00	H
	ATOM	1050	HG	CYS	A	74153.194	-0.147	9.254	1.00	0.00	H
	ATOM	1051	N	ALA	A	75156.613	-2.654	9.386	1.00	0.00	N
	ATOM	1052	CA	ALA	A	75157.492	-3.816	9.428	1.00	0.00	C
	ATOM	1053	C	ALA	A	75158.208	-4.011	8.096	1.00	0.00	C
25	ATOM	1054	O	ALA	A	75157.739	-3.552	7.055	1.00	0.00	O
	ATOM	1055	CB	ALA	A	75156.700	-5.062	9.791	1.00	0.00	C
	ATOM	1056	H	ALA	A	75155.642	-2.787	9.407	1.00	0.00	H
	ATOM	1057	HA	ALA	A	75158.229	-3.648	10.200	1.00	0.00	H
	ATOM	1058	1HB	ALA	A	75157.137	-5.921	9.302	1.00	0.00	H

	ATOM	1059	2HB	ALA A	75155.676	-4.945	9.467	1.00	0.00	H
	ATOM	1060	3HB	ALA A	75156.725	-5.206	10.861	1.00	0.00	H
	ATOM	1061	N	LEU A	76159.347	-4.695	8.137	1.00	0.00	N
	ATOM	1062	CA	LEU A	76160.129	-4.952	6.933	1.00	0.00	C
5	ATOM	1063	C	LEU A	76159.419	-5.953	6.027	1.00	0.00	C
	ATOM	1064	O	LEU A	76158.846	-6.934	6.499	1.00	0.00	O
	ATOM	1065	CB	LEU A	76161.518	-5.476	7.303	1.00	0.00	C
	ATOM	1066	CG	LEU A	76162.487	-4.420	7.837	1.00	0.00	C
	ATOM	1067	CD1	LEU A	76163.413	-5.024	8.882	1.00	0.00	C
10	ATOM	1068	CD2	LEU A	76163.291	-3.812	6.698	1.00	0.00	C
	ATOM	1069	H	LEU A	76159.669	-5.036	8.997	1.00	0.00	H
	ATOM	1070	HA	LEU A	76160.236	-4.017	6.402	1.00	0.00	H
	ATOM	1071	1HB	LEU A	76161.401	-6.242	8.056	1.00	0.00	H
	ATOM	1072	2HB	LEU A	76161.956	-5.923	6.425	1.00	0.00	H
15	ATOM	1073	HG	LEU A	76161.923	-3.629	8.309	1.00	0.00	H
	ATOM	1074	1HD1	LEU A	76163.579	-6.067	8.655	1.00	0.00	H
	ATOM	1075	2HD1	LEU A	76162.961	-4.934	9.858	1.00	0.00	H
	ATOM	1076	3HD1	LEU A	76164.357	-4.499	8.873	1.00	0.00	H
	ATOM	1077	1HD2	LEU A	76162.802	-2.913	6.350	1.00	0.00	H
20	ATOM	1078	2HD2	LEU A	76163.359	-4.522	5.886	1.00	0.00	H
	ATOM	1079	3HD2	LEU A	76164.284	-3.568	7.046	1.00	0.00	H
	ATOM	1080	N	LYS A	77159.463	-5.699	4.723	1.00	0.00	N
	ATOM	1081	CA	LYS A	77158.826	-6.579	3.751	1.00	0.00	C
	ATOM	1082	C	LYS A	77157.321	-6.654	3.991	1.00	0.00	C
25	ATOM	1083	O	LYS A	77156.714	-7.719	3.867	1.00	0.00	O
	ATOM	1084	CB	LYS A	77159.436	-7.980	3.821	1.00	0.00	C
	ATOM	1085	CG	LYS A	77160.953	-7.988	3.712	1.00	0.00	C
	ATOM	1086	CD	LYS A	77161.411	-7.675	2.296	1.00	0.00	C
	ATOM	1087	CE	LYS A	77162.908	-7.415	2.240	1.00	0.00	C

	ATOM	1088	NZ	LYS A	77163.667	-8.625	1.820	1.00	0.00	N
	ATOM	1089	H	LYS A	77159.937	-4.902	4.408	1.00	0.00	H
	ATOM	1090	HA	LYS A	77159.002	-6.168	2.768	1.00	0.00	H
	ATOM	1091	1HB	LYS A	77159.163	-8.433	4.762	1.00	0.00	H
5	ATOM	1092	2HB	LYS A	77159.036	-8.576	3.014	1.00	0.00	H
	ATOM	1093	1HG	LYS A	77161.357	-7.245	4.383	1.00	0.00	H
	ATOM	1094	2HG	LYS A	77161.319	-8.966	3.991	1.00	0.00	H
	ATOM	1095	1HD	LYS A	77161.177	-8.513	1.658	1.00	0.00	H
	ATOM	1096	2HD	LYS A	77160.888	-6.797	1.945	1.00	0.00	H
10	ATOM	1097	1HE	LYS A	77163.096	-6.620	1.534	1.00	0.00	H
	ATOM	1098	2HE	LYS A	77163.244	-7.112	3.221	1.00	0.00	H
	ATOM	1099	1HZ	LYS A	77163.116	-9.483	2.031	1.00	0.00	H
	ATOM	1100	2HZ	LYS A	77164.572	-8.674	2.329	1.00	0.00	H
	ATOM	1101	3HZ	LYS A	77163.857	-8.590	0.798	1.00	0.00	H
15	ATOM	1102	N	LYS A	78156.724	-5.518	4.334	1.00	0.00	N
	ATOM	1103	CA	LYS A	78155.290	-5.455	4.591	1.00	0.00	C
	ATOM	1104	C	LYS A	78154.730	-4.086	4.219	1.00	0.00	C
	ATOM	1105	O	LYS A	78153.888	-3.534	4.928	1.00	0.00	O
	ATOM	1106	CB	LYS A	78155.001	-5.755	6.063	1.00	0.00	C
20	ATOM	1107	CG	LYS A	78155.529	-7.104	6.524	1.00	0.00	C
	ATOM	1108	CD	LYS A	78155.130	-7.398	7.961	1.00	0.00	C
	ATOM	1109	CE	LYS A	78153.930	-8.331	8.026	1.00	0.00	C
	ATOM	1110	NZ	LYS A	78152.998	-7.961	9.126	1.00	0.00	N
	ATOM	1111	H	LYS A	78157.261	-4.702	4.417	1.00	0.00	H
25	ATOM	1112	HA	LYS A	78154.811	-6.205	3.980	1.00	0.00	H
	ATOM	1113	1HB	LYS A	78155.457	-4.988	6.671	1.00	0.00	H
	ATOM	1114	2HB	LYS A	78153.932	-5.739	6.219	1.00	0.00	H
	ATOM	1115	1HG	LYS A	78155.126	-7.875	5.884	1.00	0.00	H
	ATOM	1116	2HG	LYS A	78156.607	-7.101	6.452	1.00	0.00	H

	ATOM	1117	1HD	LYS A	78155.962	-7.864	8.468	1.00	0.00	H
	ATOM	1118	2HD	LYS A	78154.879	-6.470	8.452	1.00	0.00	H
	ATOM	1119	1HE	LYS A	78153.401	-8.283	7.086	1.00	0.00	H
	ATOM	1120	2HE	LYS A	78154.283	-9.339	8.188	1.00	0.00	H
5	ATOM	1121	1HZ	LYS A	78152.591	-8.817	9.553	1.00	0.00	H
	ATOM	1122	2HZ	LYS A	78152.225	-7.371	8.757	1.00	0.00	H
	ATOM	1123	3HZ	LYS A	78153.505	-7.426	9.860	1.00	0.00	H
	ATOM	1124	N	ALA A	79155.202	-3.543	3.101	1.00	0.00	N
	ATOM	1125	CA	ALA A	79154.749	-2.238	2.635	1.00	0.00	C
10	ATOM	1126	C	ALA A	79154.591	-2.223	1.118	1.00	0.00	C
	ATOM	1127	O	ALA A	79155.576	-2.254	0.381	1.00	0.00	O
	ATOM	1128	CB	ALA A	79155.718	-1.153	3.077	1.00	0.00	C
	ATOM	1129	H	ALA A	79155.872	-4.031	2.578	1.00	0.00	H
	ATOM	1130	HA	ALA A	79153.789	-2.038	3.088	1.00	0.00	H
15	ATOM	1131	1HB	ALA A	79155.189	-0.216	3.177	1.00	0.00	H
	ATOM	1132	2HB	ALA A	79156.501	-1.048	2.341	1.00	0.00	H
	ATOM	1133	3HB	ALA A	79156.152	-1.425	4.029	1.00	0.00	H
	ATOM	1134	N	LEU A	80153.345	-2.174	0.658	1.00	0.00	N
	ATOM	1135	CA	LEU A	80153.058	-2.154	-0.771	1.00	0.00	C
20	ATOM	1136	C	LEU A	80152.216	-0.937	-1.140	1.00	0.00	C
	ATOM	1137	O	LEU A	80151.022	-0.882	-0.847	1.00	0.00	O
	ATOM	1138	CB	LEU A	80152.330	-3.434	-1.184	1.00	0.00	C
	ATOM	1139	CG	LEU A	80151.917	-3.501	-2.655	1.00	0.00	C
	ATOM	1140	CD1	LEU A	80153.133	-3.730	-3.540	1.00	0.00	C
25	ATOM	1141	CD2	LEU A	80150.885	-4.597	-2.871	1.00	0.00	C
	ATOM	1142	H	LEU A	80152.600	-2.151	1.295	1.00	0.00	H
	ATOM	1143	HA	LEU A	80153.998	-2.100	-1.298	1.00	0.00	H
	ATOM	1144	1HB	LEU A	80152.976	-4.275	-0.975	1.00	0.00	H
	ATOM	1145	2HB	LEU A	80151.439	-3.528	-0.580	1.00	0.00	H

	ATOM	1146	HG	LEU	A	80151.471	-2.559	-2.939	1.00	0.00	H
	ATOM	1147	1HD1	LEU	A	80153.887	-4.268	-2.984	1.00	0.00	H
	ATOM	1148	2HD1	LEU	A	80153.531	-2.777	-3.858	1.00	0.00	H
	ATOM	1149	3HD1	LEU	A	80152.845	-4.307	-4.407	1.00	0.00	H
5	ATOM	1150	1HD2	LEU	A	80149.893	-4.181	-2.770	1.00	0.00	H
	ATOM	1151	2HD2	LEU	A	80151.027	-5.374	-2.134	1.00	0.00	H
	ATOM	1152	3HD2	LEU	A	80151.002	-5.012	-3.860	1.00	0.00	H
	ATOM	1153	N	PHE	A	81152.848	0.039	-1.786	1.00	0.00	N
	ATOM	1154	CA	PHE	A	81152.157	1.256	-2.195	1.00	0.00	C
10	ATOM	1155	C	PHE	A	81151.307	1.009	-3.437	1.00	0.00	C
	ATOM	1156	O	PHE	A	81151.705	0.267	-4.335	1.00	0.00	O
	ATOM	1157	CB	PHE	A	81153.167	2.373	-2.469	1.00	0.00	C
	ATOM	1158	CG	PHE	A	81153.932	2.803	-1.249	1.00	0.00	C
	ATOM	1159	CD1	PHE	A	81153.577	3.955	-0.564	1.00	0.00	C
15	ATOM	1160	CD2	PHE	A	81155.004	2.057	-0.788	1.00	0.00	C
	ATOM	1161	CE1	PHE	A	81154.278	4.354	0.558	1.00	0.00	C
	ATOM	1162	CE2	PHE	A	81155.708	2.451	0.334	1.00	0.00	C
	ATOM	1163	CZ	PHE	A	81155.345	3.600	1.008	1.00	0.00	C
	ATOM	1164	H	PHE	A	81153.800	-0.062	-1.991	1.00	0.00	H
20	ATOM	1165	HA	PHE	A	81151.511	1.559	-1.385	1.00	0.00	H
	ATOM	1166	1HB	PHE	A	81153.881	2.030	-3.203	1.00	0.00	H
	ATOM	1167	2HB	PHE	A	81152.644	3.235	-2.856	1.00	0.00	H
	ATOM	1168	HD1	PHE	A	81152.742	4.544	-0.915	1.00	0.00	H
	ATOM	1169	HD2	PHE	A	81155.289	1.158	-1.315	1.00	0.00	H
25	ATOM	1170	HE1	PHE	A	81153.992	5.253	1.082	1.00	0.00	H
	ATOM	1171	HE2	PHE	A	81156.543	1.860	0.683	1.00	0.00	H
	ATOM	1172	HZ	PHE	A	81155.895	3.910	1.884	1.00	0.00	H
	ATOM	1173	N	VAL	A	82150.136	1.635	-3.480	1.00	0.00	N
	ATOM	1174	CA	VAL	A	82149.229	1.481	-4.612	1.00	0.00	C



	ATOM	1175	C	VAL A	82148.290	2.677	-4.731	1.00	0.00	C
	ATOM	1176	O	VAL A	82148.185	3.490	-3.813	1.00	0.00	O
	ATOM	1177	CB	VAL A	82148.392	0.195	-4.492	1.00	0.00	C
	ATOM	1178	CG1	VAL A	82149.267	-1.034	-4.677	1.00	0.00	C
5	ATOM	1179	CG2	VAL A	82147.673	0.150	-3.151	1.00	0.00	C
	ATOM	1180	H	VAL A	82149.874	2.213	-2.734	1.00	0.00	H
	ATOM	1181	HA	VAL A	82149.826	1.414	-5.510	1.00	0.00	H
	ATOM	1182	HB	VAL A	82147.648	0.200	-5.274	1.00	0.00	H
	ATOM	1183	1HG1	VAL A	82149.980	-1.095	-3.866	1.00	0.00	H
10	ATOM	1184	2HG1	VAL A	82149.796	-0.961	-5.616	1.00	0.00	H
	ATOM	1185	3HG1	VAL A	82148.650	-1.920	-4.680	1.00	0.00	H
	ATOM	1186	1HG2	VAL A	82146.739	-0.382	-3.261	1.00	0.00	H
	ATOM	1187	2HG2	VAL A	82147.476	1.157	-2.815	1.00	0.00	H
	ATOM	1188	3HG2	VAL A	82148.293	-0.357	-2.428	1.00	0.00	H
15	ATOM	1189	N	LYS A	83147.610	2.775	-5.868	1.00	0.00	N
	ATOM	1190	CA	LYS A	83146.677	3.871	-6.108	1.00	0.00	C
	ATOM	1191	C	LYS A	83145.454	3.754	-5.206	1.00	0.00	C
	ATOM	1192	O	LYS A	83144.760	2.738	-5.212	1.00	0.00	O
	ATOM	1193	CB	LYS A	83146.244	3.888	-7.574	1.00	0.00	C
20	ATOM	1194	CG	LYS A	83147.383	4.164	-8.542	1.00	0.00	C
	ATOM	1195	CD	LYS A	83147.037	3.716	-9.953	1.00	0.00	C
	ATOM	1196	CE	LYS A	83147.527	4.712	-10.991	1.00	0.00	C
	ATOM	1197	NZ	LYS A	83147.970	4.039	-12.243	1.00	0.00	N
	ATOM	1198	H	LYS A	83147.736	2.095	-6.562	1.00	0.00	H
25	ATOM	1199	HA	LYS A	83147.188	4.796	-5.882	1.00	0.00	H
	ATOM	1200	1HB	LYS A	83145.815	2.929	-7.822	1.00	0.00	H
	ATOM	1201	2HB	LYS A	83145.494	4.653	-7.708	1.00	0.00	H
	ATOM	1202	1HG	LYS A	83147.585	5.225	-8.552	1.00	0.00	H
	ATOM	1203	2HG	LYS A	83148.262	3.631	-8.210	1.00	0.00	H

	ATOM	1204	1HD	LYS A	83147.501	2.760	-10.141	1.00	0.00	H
	ATOM	1205	2HD	LYS A	83145.964	3.620	-10.037	1.00	0.00	H
	ATOM	1206	1HE	LYS A	83146.723	5.394	-11.225	1.00	0.00	H
	ATOM	1207	2HE	LYS A	83148.356	5.266	-10.576	1.00	0.00	H
5	ATOM	1208	1HZ	LYS A	83147.466	3.137	-12.361	1.00	0.00	H
	ATOM	1209	2HZ	LYS A	83148.992	3.849	-12.204	1.00	0.00	H
	ATOM	1210	3HZ	LYS A	83147.773	4.646	-13.064	1.00	0.00	H
	ATOM	1211	N	LEU A	84145.197	4.803	-4.432	1.00	0.00	N
	ATOM	1212	CA	LEU A	84144.059	4.823	-3.523	1.00	0.00	C
10	ATOM	1213	C	LEU A	84142.750	4.654	-4.288	1.00	0.00	C
	ATOM	1214	O	LEU A	84141.796	4.062	-3.782	1.00	0.00	O
	ATOM	1215	CB	LEU A	84144.039	6.133	-2.733	1.00	0.00	C
	ATOM	1216	CG	LEU A	84142.825	6.326	-1.822	1.00	0.00	C
	ATOM	1217	CD1	LEU A	84142.924	5.419	-0.605	1.00	0.00	C
15	ATOM	1218	CD2	LEU A	84142.705	7.781	-1.396	1.00	0.00	C
	ATOM	1219	H	LEU A	84145.789	5.582	-4.474	1.00	0.00	H
	ATOM	1220	HA	LEU A	84144.169	3.999	-2.834	1.00	0.00	H
	ATOM	1221	1HB	LEU A	84144.931	6.175	-2.125	1.00	0.00	H
	ATOM	1222	2HB	LEU A	84144.066	6.952	-3.437	1.00	0.00	H
20	ATOM	1223	HG	LEU A	84141.930	6.059	-2.365	1.00	0.00	H
	ATOM	1224	1HD1	LEU A	84141.946	5.308	-0.159	1.00	0.00	H
	ATOM	1225	2HD1	LEU A	84143.600	5.855	0.115	1.00	0.00	H
	ATOM	1226	3HD1	LEU A	84143.294	4.450	-0.906	1.00	0.00	H
	ATOM	1227	1HD2	LEU A	84143.646	8.115	-0.986	1.00	0.00	H
25	ATOM	1228	2HD2	LEU A	84141.931	7.874	-0.648	1.00	0.00	H
	ATOM	1229	3HD2	LEU A	84142.451	8.386	-2.254	1.00	0.00	H
	ATOM	1230	N	LYS A	85142.712	5.177	-5.508	1.00	0.00	N
	ATOM	1231	CA	LYS A	85141.521	5.083	-6.343	1.00	0.00	C
	ATOM	1232	C	LYS A	85141.210	3.630	-6.689	1.00	0.00	C

	ATOM	1233	O	LYS A	85140.057	3.274	-6.936	1.00	0.00	O
	ATOM	1234	CB	LYS A	85141.707	5.896	-7.627	1.00	0.00	C
	ATOM	1235	CG	LYS A	85143.008	5.597	-8.352	1.00	0.00	C
	ATOM	1236	CD	LYS A	85142.945	6.026	-9.810	1.00	0.00	C
5	ATOM	1237	CE	LYS A	85142.666	4.847	-10.728	1.00	0.00	C
	ATOM	1238	NZ	LYS A	85143.868	4.463	-11.521	1.00	0.00	N
	ATOM	1239	H	LYS A	85143.505	5.637	-5.856	1.00	0.00	H
	ATOM	1240	HA	LYS A	85140.693	5.494	-5.786	1.00	0.00	H
	ATOM	1241	1HB	LYS A	85140.888	5.681	-8.297	1.00	0.00	H
10	ATOM	1242	2HB	LYS A	85141.691	6.947	-7.379	1.00	0.00	H
	ATOM	1243	1HG	LYS A	85143.811	6.131	-7.866	1.00	0.00	H
	ATOM	1244	2HG	LYS A	85143.200	4.535	-8.307	1.00	0.00	H
	ATOM	1245	1HD	LYS A	85142.156	6.754	-9.927	1.00	0.00	H
	ATOM	1246	2HD	LYS A	85143.890	6.470	-10.086	1.00	0.00	H
15	ATOM	1247	1HE	LYS A	85142.358	4.003	-10.129	1.00	0.00	H
	ATOM	1248	2HE	LYS A	85141.869	5.116	-11.406	1.00	0.00	H
	ATOM	1249	1HZ	LYS A	85143.929	3.427	-11.599	1.00	0.00	H
	ATOM	1250	2HZ	LYS A	85144.729	4.815	-11.058	1.00	0.00	H
	ATOM	1251	3HZ	LYS A	85143.810	4.869	-12.477	1.00	0.00	H
20	ATOM	1252	N	SER A	86142.243	2.794	-6.705	1.00	0.00	N
	ATOM	1253	CA	SER A	86142.077	1.380	-7.019	1.00	0.00	C
	ATOM	1254	C	SER A	86142.051	0.539	-5.747	1.00	0.00	C
	ATOM	1255	O	SER A	86142.486	-0.613	-5.743	1.00	0.00	O
	ATOM	1256	CB	SER A	86143.205	0.904	-7.936	1.00	0.00	C
25	ATOM	1257	OG	SER A	86143.371	1.779	-9.038	1.00	0.00	O
	ATOM	1258	H	SER A	86143.139	3.136	-6.500	1.00	0.00	H
	ATOM	1259	HA	SER A	86141.134	1.264	-7.533	1.00	0.00	H
	ATOM	1260	1HB	SER A	86144.128	0.869	-7.378	1.00	0.00	H
	ATOM	1261	2HB	SER A	86142.972	-0.083	-8.308	1.00	0.00	H

	ATOM	1262	HG	SER A	86142.512	1.998	-9.406	1.00	0.00	H
	ATOM	1263	N	CYS A	87141.537	1.122	-4.669	1.00	0.00	N
	ATOM	1264	CA	CYS A	87141.454	0.427	-3.390	1.00	0.00	C
	ATOM	1265	C	CYS A	87140.001	0.231	-2.970	1.00	0.00	C
5	ATOM	1266	O	CYS A	87139.186	1.148	-3.073	1.00	0.00	O
	ATOM	1267	CB	CYS A	87142.207	1.208	-2.311	1.00	0.00	C
	ATOM	1268	SG	CYS A	87144.005	1.180	-2.501	1.00	0.00	S
	ATOM	1269	H	CYS A	87141.206	2.042	-4.735	1.00	0.00	H
	ATOM	1270	HA	CYS A	87141.916	-0.542	-3.508	1.00	0.00	H
10	ATOM	1271	1HB	CYS A	87141.891	2.239	-2.337	1.00	0.00	H
	ATOM	1272	2HB	CYS A	87141.972	0.788	-1.344	1.00	0.00	H
	ATOM	1273	HG	CYS A	87144.394	1.095	-1.627	1.00	0.00	H
	ATOM	1274	N	ARG A	88139.683	-0.971	-2.498	1.00	0.00	N
	ATOM	1275	CA	ARG A	88138.328	-1.288	-2.063	1.00	0.00	C
15	ATOM	1276	C	ARG A	88138.292	-1.575	-0.563	1.00	0.00	C
	ATOM	1277	O	ARG A	88139.234	-2.142	-0.010	1.00	0.00	O
	ATOM	1278	CB	ARG A	88137.790	-2.492	-2.839	1.00	0.00	C
	ATOM	1279	CG	ARG A	88136.954	-2.109	-4.051	1.00	0.00	C
	ATOM	1280	CD	ARG A	88135.509	-2.558	-3.902	1.00	0.00	C
20	ATOM	1281	NE	ARG A	88135.240	-3.791	-4.638	1.00	0.00	N
	ATOM	1282	CZ	ARG A	88134.146	-4.531	-4.470	1.00	0.00	C
	ATOM	1283	NH1	ARG A	88133.219	-4.168	-3.594	1.00	0.00	N
	ATOM	1284	NH2	ARG A	88133.980	-5.638	-5.181	1.00	0.00	N
	ATOM	1285	H	ARG A	88140.377	-1.660	-2.441	1.00	0.00	H
25	ATOM	1286	HA	ARG A	88137.706	-0.430	-2.269	1.00	0.00	H
	ATOM	1287	1HB	ARG A	88138.623	-3.088	-3.178	1.00	0.00	H
	ATOM	1288	2HB	ARG A	88137.176	-3.087	-2.178	1.00	0.00	H
	ATOM	1289	1HG	ARG A	88136.976	-1.035	-4.167	1.00	0.00	H
	ATOM	1290	2HG	ARG A	88137.378	-2.575	-4.929	1.00	0.00	H

	ATOM	1291	1HD	ARG	A	88135.304	-2.724	-2.854	1.00	0.00	H
	ATOM	1292	2HD	ARG	A	88134.862	-1.778	-4.275	1.00	0.00	H
	ATOM	1293	HE	ARG	A	88135.910	-4.082	-5.292	1.00	0.00	H
	ATOM	1294	1HH1	ARG	A	88133.338	-3.334	-3.054	1.00	0.00	H
5	ATOM	1295	2HH1	ARG	A	88132.399	-4.728	-3.472	1.00	0.00	H
	ATOM	1296	1HH2	ARG	A	88134.676	-5.917	-5.843	1.00	0.00	H
	ATOM	1297	2HH2	ARG	A	88133.159	-6.194	-5.055	1.00	0.00	H
	ATOM	1298	N	PRO	A	89137.198	-1.187	0.118	1.00	0.00	N
	ATOM	1299	CA	PRO	A	89137.048	-1.408	1.560	1.00	0.00	C
10	ATOM	1300	C	PRO	A	89137.285	-2.863	1.950	1.00	0.00	C
	ATOM	1301	O	PRO	A	89136.808	-3.781	1.282	1.00	0.00	O
	ATOM	1302	CB	PRO	A	89135.594	-1.013	1.832	1.00	0.00	C
	ATOM	1303	CG	PRO	A	89135.252	-0.054	0.744	1.00	0.00	C
	ATOM	1304	CD	PRO	A	89136.026	-0.505	-0.463	1.00	0.00	C
15	ATOM	1305	HA	PRO	A	89137.710	-0.771	2.128	1.00	0.00	H
	ATOM	1306	1HB	PRO	A	89134.967	-1.892	1.797	1.00	0.00	H
	ATOM	1307	2HB	PRO	A	89135.520	-0.549	2.803	1.00	0.00	H
	ATOM	1308	1HG	PRO	A	89134.191	-0.090	0.545	1.00	0.00	H
	ATOM	1309	2HG	PRO	A	89135.548	0.945	1.028	1.00	0.00	H
20	ATOM	1310	1HD	PRO	A	89135.436	-1.189	-1.056	1.00	0.00	H
	ATOM	1311	2HD	PRO	A	89136.329	0.346	-1.055	1.00	0.00	H
	ATOM	1312	N	ASP	A	90138.026	-3.066	3.035	1.00	0.00	N
	ATOM	1313	CA	ASP	A	90138.326	-4.409	3.514	1.00	0.00	C
	ATOM	1314	C	ASP	A	90137.405	-4.795	4.667	1.00	0.00	C
25	ATOM	1315	O	ASP	A	90137.387	-4.137	5.706	1.00	0.00	O
	ATOM	1316	CB	ASP	A	90139.786	-4.499	3.961	1.00	0.00	C
	ATOM	1317	CG	ASP	A	90140.288	-5.929	4.013	1.00	0.00	C
	ATOM	1318	OD1	ASP	A	90139.463	-6.840	4.238	1.00	0.00	O
	ATOM	1319	OD2	ASP	A	90141.506	-6.138	3.828	1.00	0.00	O

	ATOM	1320	H	ASP	A	90138.378	-2.294	3.525	1.00	0.00	H
	ATOM	1321	HA	ASP	A	90138.167	-5.097	2.696	1.00	0.00	H
	ATOM	1322	1HB	ASP	A	90140.403	-3.947	3.268	1.00	0.00	H
	ATOM	1323	2HB	ASP	A	90139.881	-4.067	4.946	1.00	0.00	H
5	ATOM	1324	N	SER	A	91136.640	-5.865	4.475	1.00	0.00	N
	ATOM	1325	CA	SER	A	91135.716	-6.338	5.498	1.00	0.00	C
	ATOM	1326	C	SER	A	91136.321	-7.495	6.286	1.00	0.00	C
	ATOM	1327	O	SER	A	91135.606	-8.375	6.764	1.00	0.00	O
	ATOM	1328	CB	SER	A	91134.396	-6.776	4.860	1.00	0.00	C
10	ATOM	1329	OG	SER	A	91133.310	-6.584	5.749	1.00	0.00	O
	ATOM	1330	H	SER	A	91136.699	-6.348	3.624	1.00	0.00	H
	ATOM	1331	HA	SER	A	91135.523	-5.519	6.175	1.00	0.00	H
	ATOM	1332	1HB	SER	A	91134.221	-6.196	3.966	1.00	0.00	H
	ATOM	1333	2HB	SER	A	91134.454	-7.824	4.603	1.00	0.00	H
15	ATOM	1334	HG	SER	A	91133.107	-7.412	6.191	1.00	0.00	H
	ATOM	1335	N	ARG	A	92137.643	-7.487	6.418	1.00	0.00	N
	ATOM	1336	CA	ARG	A	92138.345	-8.536	7.149	1.00	0.00	C
	ATOM	1337	C	ARG	A	92137.999	-8.490	8.633	1.00	0.00	C
	ATOM	1338	O	ARG	A	92137.991	-9.519	9.310	1.00	0.00	O
20	ATOM	1339	CB	ARG	A	92139.856	-8.395	6.960	1.00	0.00	C
	ATOM	1340	CG	ARG	A	92140.387	-9.117	5.733	1.00	0.00	C
	ATOM	1341	CD	ARG	A	92140.922	-10.495	6.085	1.00	0.00	C
	ATOM	1342	NE	ARG	A	92139.849	-11.470	6.267	1.00	0.00	N
	ATOM	1343	CZ	ARG	A	92140.030	-12.682	6.784	1.00	0.00	C
25	ATOM	1344	NH1	ARG	A	92141.238	-13.075	7.169	1.00	0.00	N
	ATOM	1345	NH2	ARG	A	92138.999	-13.508	6.915	1.00	0.00	N
	ATOM	1346	H	ARG	A	92138.160	-6.758	6.014	1.00	0.00	H
	ATOM	1347	HA	ARG	A	92138.029	-9.488	6.747	1.00	0.00	H
	ATOM	1348	1HB	ARG	A	92140.099	-7.347	6.869	1.00	0.00	H

	ATOM	1349	2HB	ARG	A	92140.355	-8.796	7.831	1.00	0.00	H
	ATOM	1350	1HG	ARG	A	92139.586	-9.225	5.016	1.00	0.00	H
	ATOM	1351	2HG	ARG	A	92141.183	-8.530	5.299	1.00	0.00	H
	ATOM	1352	1HD	ARG	A	92141.568	-10.830	5.287	1.00	0.00	H
5	ATOM	1353	2HD	ARG	A	92141.491	-10.423	7.001	1.00	0.00	H
	ATOM	1354	HE	ARG	A	92138.947	-11.206	5.990	1.00	0.00	H
	ATOM	1355	1HH1	ARG	A	92142.019	-12.458	7.074	1.00	0.00	H
	ATOM	1356	2HH1	ARG	A	92141.367	-13.988	7.557	1.00	0.00	H
	ATOM	1357	1HH2	ARG	A	92138.087	-13.217	6.626	1.00	0.00	H
10	ATOM	1358	2HH2	ARG	A	92139.135	-14.418	7.303	1.00	0.00	H
	ATOM	1359	N	PHE	A	93137.713	-7.293	9.133	1.00	0.00	N
	ATOM	1360	CA	PHE	A	93137.366	-7.114	10.538	1.00	0.00	C
	ATOM	1361	C	PHE	A	93136.006	-6.439	10.683	1.00	0.00	C
	ATOM	1362	O	PHE	A	93135.761	-5.713	11.646	1.00	0.00	O
15	ATOM	1363	CB	PHE	A	93138.437	-6.284	11.248	1.00	0.00	C
	ATOM	1364	CG	PHE	A	93139.732	-7.019	11.447	1.00	0.00	C
	ATOM	1365	CD1	PHE	A	93140.508	-7.389	10.360	1.00	0.00	C
	ATOM	1366	CD2	PHE	A	93140.173	-7.340	12.721	1.00	0.00	C
	ATOM	1367	CE1	PHE	A	93141.701	-8.064	10.540	1.00	0.00	C
20	ATOM	1368	CE2	PHE	A	93141.365	-8.015	12.907	1.00	0.00	C
	ATOM	1369	CZ	PHE	A	93142.129	-8.378	11.815	1.00	0.00	C
	ATOM	1370	H	PHE	A	93137.736	-6.511	8.543	1.00	0.00	H
	ATOM	1371	HA	PHE	A	93137.320	-8.091	10.995	1.00	0.00	H
	ATOM	1372	1HB	PHE	A	93138.644	-5.400	10.663	1.00	0.00	H
25	ATOM	1373	2HB	PHE	A	93138.069	-5.989	12.219	1.00	0.00	H
	ATOM	1374	HD1	PHE	A	93140.174	-7.143	9.362	1.00	0.00	H
	ATOM	1375	HD2	PHE	A	93139.576	-7.057	13.575	1.00	0.00	H
	ATOM	1376	HE1	PHE	A	93142.296	-8.347	9.684	1.00	0.00	H
	ATOM	1377	HE2	PHE	A	93141.697	-8.260	13.905	1.00	0.00	H

	ATOM	1378	HZ	PHE A	93143.060	-8.906	11.957	1.00	0.00	H
	ATOM	1379	N	ALA A	94135.123	-6.684	9.719	1.00	0.00	N
	ATOM	1380	CA	ALA A	94133.788	-6.099	9.741	1.00	0.00	C
	ATOM	1381	C	ALA A	94132.772	-7.072	10.327	1.00	0.00	C
5	ATOM	1382	O	ALA A	94132.691	-8.228	9.909	1.00	0.00	O
	ATOM	1383	CB	ALA A	94133.373	-5.682	8.337	1.00	0.00	C
	ATOM	1384	H	ALA A	94135.376	-7.271	8.976	1.00	0.00	H
	ATOM	1385	HA	ALA A	94133.822	-5.214	10.358	1.00	0.00	H
	ATOM	1386	1HB	ALA A	94134.251	-5.568	7.721	1.00	0.00	H
10	ATOM	1387	2HB	ALA A	94132.841	-4.743	8.384	1.00	0.00	H
	ATOM	1388	3HB	ALA A	94132.730	-6.439	7.913	1.00	0.00	H
	ATOM	1389	N	SER A	95131.999	-6.600	11.299	1.00	0.00	N
	ATOM	1390	CA	SER A	95130.987	-7.428	11.944	1.00	0.00	C
	ATOM	1391	C	SER A	95129.662	-7.353	11.194	1.00	0.00	C
15	ATOM	1392	O	SER A	95129.017	-6.305	11.158	1.00	0.00	O
	ATOM	1393	CB	SER A	95130.791	-6.992	13.397	1.00	0.00	C
	ATOM	1394	OG	SER A	95130.890	-5.584	13.525	1.00	0.00	O
	ATOM	1395	H	SER A	95132.110	-5.670	11.589	1.00	0.00	H
	ATOM	1396	HA	SER A	95131.338	-8.450	11.928	1.00	0.00	H
20	ATOM	1397	1HB	SER A	95129.814	-7.304	13.735	1.00	0.00	H
	ATOM	1398	2HB	SER A	95131.549	-7.453	14.013	1.00	0.00	H
	ATOM	1399	HG	SER A	95130.226	-5.272	14.144	1.00	0.00	H
	ATOM	1400	N	LEU A	96129.260	-8.471	10.598	1.00	0.00	N
	ATOM	1401	CA	LEU A	96128.010	-8.531	9.849	1.00	0.00	C
25	ATOM	1402	C	LEU A	96127.168	-9.724	10.295	1.00	0.00	C
	ATOM	1403	O	LEU A	96126.898	-10.636	9.512	1.00	0.00	O
	ATOM	1404	CB	LEU A	96128.294	-8.620	8.348	1.00	0.00	C
	ATOM	1405	CG	LEU A	96128.449	-7.275	7.638	1.00	0.00	C
	ATOM	1406	CD1	LEU A	96129.872	-6.756	7.782	1.00	0.00	C



	ATOM	1407	CD2	LEU	A	96128.074	-7.403	6.170	1.00	0.00	C
	ATOM	1408	H	LEU	A	96129.818	-9.273	10.663	1.00	0.00	H
	ATOM	1409	HA	LEU	A	96127.459	-7.624	10.049	1.00	0.00	H
	ATOM	1410	1HB	LEU	A	96129.204	-9.186	8.209	1.00	0.00	H
5	ATOM	1411	2HB	LEU	A	96127.483	-9.158	7.881	1.00	0.00	H
	ATOM	1412	HG	LEU	A	96127.785	-6.556	8.093	1.00	0.00	H
	ATOM	1413	1HD1	LEU	A	96130.148	-6.210	6.893	1.00	0.00	H
	ATOM	1414	2HD1	LEU	A	96130.546	-7.589	7.917	1.00	0.00	H
	ATOM	1415	3HD1	LEU	A	96129.932	-6.102	8.639	1.00	0.00	H
10	ATOM	1416	1HD2	LEU	A	96128.564	-6.626	5.603	1.00	0.00	H
	ATOM	1417	2HD2	LEU	A	96127.003	-7.305	6.063	1.00	0.00	H
	ATOM	1418	3HD2	LEU	A	96128.385	-8.368	5.800	1.00	0.00	H
	ATOM	1419	N	GLN	A	97126.757	-9.711	11.559	1.00	0.00	N
	ATOM	1420	CA	GLN	A	97125.947	-10.790	12.110	1.00	0.00	C
15	ATOM	1421	C	GLN	A	97124.516	-10.728	11.576	1.00	0.00	C
	ATOM	1422	O	GLN	A	97124.045	-11.665	10.932	1.00	0.00	O
	ATOM	1423	CB	GLN	A	97125.941	-10.721	13.640	1.00	0.00	C
	ATOM	1424	CG	GLN	A	97126.526	-11.955	14.306	1.00	0.00	C
	ATOM	1425	CD	GLN	A	97127.328	-11.623	15.549	1.00	0.00	C
20	ATOM	1426	OE1	GLN	A	97128.215	-10.768	15.519	1.00	0.00	O
	ATOM	1427	NE2	GLN	A	97127.020	-12.297	16.650	1.00	0.00	N
	ATOM	1428	H	GLN	A	97127.004	-8.958	12.134	1.00	0.00	H
	ATOM	1429	HA	GLN	A	97126.390	-11.726	11.804	1.00	0.00	H
	ATOM	1430	1HB	GLN	A	97126.519	-9.863	13.952	1.00	0.00	H
25	ATOM	1431	2HB	GLN	A	97124.924	-10.602	13.982	1.00	0.00	H
	ATOM	1432	1HG	GLN	A	97125.719	-12.616	14.585	1.00	0.00	H
	ATOM	1433	2HG	GLN	A	97127.173	-12.457	13.601	1.00	0.00	H
	ATOM	1434	1HE2	GLN	A	97126.303	-12.963	16.600	1.00	0.00	H
	ATOM	1435	2HE2	GLN	A	97127.523	-12.101	17.468	1.00	0.00	H

	ATOM	1436	N	PRO A	98123.805	-9.618	11.839	1.00	0.00	N
	ATOM	1437	CA	PRO A	98122.423	-9.441	11.383	1.00	0.00	C
	ATOM	1438	C	PRO A	98122.336	-9.185	9.882	1.00	0.00	C
	ATOM	1439	O	PRO A	98121.504	-9.772	9.190	1.00	0.00	O
5	ATOM	1440	CB	PRO A	98121.948	-8.215	12.163	1.00	0.00	C
	ATOM	1441	CG	PRO A	98123.189	-7.437	12.434	1.00	0.00	C
	ATOM	1442	CD	PRO A	98124.289	-8.450	12.603	1.00	0.00	C
	ATOM	1443	HA	PRO A	98121.811	-10.293	11.637	1.00	0.00	H
	ATOM	1444	1HB	PRO A	98121.251	-7.650	11.562	1.00	0.00	H
10	ATOM	1445	2HB	PRO A	98121.472	-8.530	13.079	1.00	0.00	H
	ATOM	1446	1HG	PRO A	98123.404	-6.786	11.600	1.00	0.00	H
	ATOM	1447	2HG	PRO A	98123.070	-6.861	13.341	1.00	0.00	H
	ATOM	1448	1HD	PRO A	98125.213	-8.076	12.188	1.00	0.00	H
	ATOM	1449	2HD	PRO A	98124.416	-8.700	13.646	1.00	0.00	H
15	ATOM	1450	N	SER A	99123.200	-8.306	9.385	1.00	0.00	N
	ATOM	1451	CA	SER A	99123.219	-7.974	7.965	1.00	0.00	C
	ATOM	1452	C	SER A	99121.874	-7.407	7.521	1.00	0.00	C
	ATOM	1453	O	SER A	99121.020	-7.091	8.348	1.00	0.00	O
	ATOM	1454	CB	SER A	99123.566	-9.211	7.134	1.00	0.00	C
20	ATOM	1455	OG	SER A	99124.331	-8.862	5.994	1.00	0.00	O
	ATOM	1456	H	SER A	99123.840	-7.871	9.986	1.00	0.00	H
	ATOM	1457	HA	SER A	99123.981	-7.223	7.811	1.00	0.00	H
	ATOM	1458	1HB	SER A	99124.136	-9.899	7.738	1.00	0.00	H
	ATOM	1459	2HB	SER A	99122.654	-9.689	6.808	1.00	0.00	H
25	ATOM	1460	HG	SER A	99124.982	-9.547	5.823	1.00	0.00	H
	ATOM	1461	N	GLY A	100121.693	-7.282	6.210	1.00	0.00	N
	ATOM	1462	CA	GLY A	100120.450	-6.753	5.680	1.00	0.00	C
	ATOM	1463	C	GLY A	100119.356	-7.803	5.611	1.00	0.00	C
	ATOM	1464	O	GLY A	100119.639	-8.982	5.399	1.00	0.00	O

	ATOM	1465	H	GLY A	100122.411	-7.550	5.597	1.00	0.00	H
	ATOM	1466	1HA	GLY A	100120.118	-5.944	6.312	1.00	0.00	H
	ATOM	1467	2HA	GLY A	100120.628	-6.370	4.686	1.00	0.00	H
	ATOM	1468	N	PRO A	101118.085	-7.404	5.789	1.00	0.00	N
5	ATOM	1469	CA	PRO A	101116.952	-8.333	5.743	1.00	0.00	C
	ATOM	1470	C	PRO A	101116.660	-8.821	4.328	1.00	0.00	C
	ATOM	1471	O	PRO A	101116.427	-8.023	3.421	1.00	0.00	O
	ATOM	1472	CB	PRO A	101115.786	-7.494	6.269	1.00	0.00	C
	ATOM	1473	CG	PRO A	101116.154	-6.088	5.942	1.00	0.00	C
10	ATOM	1474	CD	PRO A	101117.653	-6.016	6.049	1.00	0.00	C
	ATOM	1475	HA	PRO A	101117.110	-9.182	6.391	1.00	0.00	H
	ATOM	1476	1HB	PRO A	101114.873	-7.791	5.773	1.00	0.00	H
	ATOM	1477	2HB	PRO A	101115.686	-7.638	7.335	1.00	0.00	H
	ATOM	1478	1HG	PRO A	101115.838	-5.850	4.937	1.00	0.00	H
15	ATOM	1479	2HG	PRO A	101115.696	-5.414	6.650	1.00	0.00	H
	ATOM	1480	1HD	PRO A	101118.052	-5.343	5.304	1.00	0.00	H
	ATOM	1481	2HD	PRO A	101117.947	-5.701	7.039	1.00	0.00	H
	ATOM	1482	N	SER A	102116.674	-10.138	4.148	1.00	0.00	N
	ATOM	1483	CA	SER A	102116.412	-10.733	2.842	1.00	0.00	C
20	ATOM	1484	C	SER A	102116.109	-12.222	2.974	1.00	0.00	C
	ATOM	1485	O	SER A	102114.991	-12.664	2.712	1.00	0.00	O
	ATOM	1486	CB	SER A	102117.608	-10.524	1.913	1.00	0.00	C
	ATOM	1487	OG	SER A	102118.116	-9.206	2.023	1.00	0.00	O
	ATOM	1488	H	SER A	102116.867	-10.723	4.910	1.00	0.00	H
25	ATOM	1489	HA	SER A	102115.549	-10.239	2.421	1.00	0.00	H
	ATOM	1490	1HB	SER A	102118.391	-11.220	2.174	1.00	0.00	H
	ATOM	1491	2HB	SER A	102117.301	-10.695	0.891	1.00	0.00	H
	ATOM	1492	HG	SER A	102117.394	-8.577	1.950	1.00	0.00	H
	ATOM	1493	N	SER A	103117.113	-12.991	3.383	1.00	0.00	N

	ATOM	1494	CA	SER A	103116.954	-14.431	3.549	1.00	0.00	C
	ATOM	1495	C	SER A	103116.257	-14.753	4.867	1.00	0.00	C
	ATOM	1496	O	SER A	103115.461	-15.689	4.948	1.00	0.00	O
	ATOM	1497	CB	SER A	103118.316	-15.125	3.496	1.00	0.00	C
5	ATOM	1498	OG	SER A	103119.347	-14.261	3.943	1.00	0.00	O
	ATOM	1499	H	SER A	103117.982	-12.580	3.576	1.00	0.00	H
	ATOM	1500	HA	SER A	103116.344	-14.793	2.735	1.00	0.00	H
	ATOM	1501	1HB	SER A	103118.297	-15.999	4.129	1.00	0.00	H
	ATOM	1502	2HB	SER A	103118.528	-15.422	2.480	1.00	0.00	H
10	ATOM	1503	HG	SER A	103119.084	-13.850	4.770	1.00	0.00	H
	ATOM	1504	N	GLY A	104116.563	-13.971	5.898	1.00	0.00	N
	ATOM	1505	CA	GLY A	104115.957	-14.190	7.198	1.00	0.00	C
	ATOM	1506	C	GLY A	104116.797	-13.632	8.330	1.00	0.00	C
	ATOM	1507	O	GLY A	104116.544	-12.483	8.749	1.00	0.00	O
15	ATOM	1508	OXT	GLY A	104117.710	-14.346	8.800	1.00	0.00	O
	ATOM	1509	H	GLY A	104117.204	-13.241	5.775	1.00	0.00	H
	ATOM	1510	1HA	GLY A	104114.988	-13.713	7.216	1.00	0.00	H
	ATOM	1511	2HA	GLY A	104115.828	-15.251	7.349	1.00	0.00	H
	TER	1512	GLY A	104						
20	ENDMDL									

## 立体構造座標表 4

	ATOM	1	N	GLY A	1121.720	20.634	-14.920	1.00	0.00	N
	ATOM	2	CA	GLY A	1122.817	20.620	-15.926	1.00	0.00	C
25	ATOM	3	C	GLY A	1124.008	19.798	-15.473	1.00	0.00	C
	ATOM	4	O	GLY A	1124.328	18.773	-16.074	1.00	0.00	O
	ATOM	5	1H	GLY A	1121.802	19.811	-14.289	1.00	0.00	H
	ATOM	6	2H	GLY A	1120.797	20.600	-15.398	1.00	0.00	H
	ATOM	7	3H	GLY A	1121.770	21.502	-14.350	1.00	0.00	H

	ATOM 8	1HA	GLY A	1122.439	20.205	-16.849	1.00	0.00	H
	ATOM 9	2HA	GLY A	1123.140	21.634	-16.106	1.00	0.00	H
	ATOM10	N	SER A	2124.667	20.251	-14.411	1.00	0.00	N
	ATOM11	CA	SER A	2125.830	19.552	-13.878	1.00	0.00	C
5	ATOM12	C	SER A	2125.464	18.765	-12.623	1.00	0.00	C
	ATOM13	O	SER A	2126.259	18.661	-11.690	1.00	0.00	O
	ATOM14	CB	SER A	2126.948	20.547	-13.561	1.00	0.00	C
	ATOM15	OG	SER A	2126.520	21.513	-12.617	1.00	0.00	O
	ATOM16	H	SER A	2124.363	21.075	-13.976	1.00	0.00	H
10	ATOM17	HA	SER A	2126.177	18.862	-14.633	1.00	0.00	H
	ATOM18	1HB	SER A	2127.796	20.015	-13.156	1.00	0.00	H
	ATOM19	2HB	SER A	2127.243	21.054	-14.469	1.00	0.00	H
	ATOM20	HG	SER A	2126.598	22.391	-12.998	1.00	0.00	H
	ATOM21	N	SER A	3124.255	18.213	-12.610	1.00	0.00	N
15	ATOM22	CA	SER A	3123.782	17.436	-11.469	1.00	0.00	C
	ATOM23	C	SER A	3123.253	16.078	-11.920	1.00	0.00	C
	ATOM24	O	SER A	3123.214	15.780	-13.113	1.00	0.00	O
	ATOM25	CB	SER A	3122.690	18.201	-10.721	1.00	0.00	C
	ATOM26	OG	SER A	3122.954	19.592	-10.713	1.00	0.00	O
20	ATOM27	H	SER A	3123.666	18.332	-13.384	1.00	0.00	H
	ATOM28	HA	SER A	3124.619	17.280	-10.805	1.00	0.00	H
	ATOM29	1HB	SER A	3121.739	18.031	-11.206	1.00	0.00	H
	ATOM30	2HB	SER A	3122.641	17.848	-9.701	1.00	0.00	H
	ATOM31	HG	SER A	3123.781	19.758	-10.252	1.00	0.00	H
25	ATOM32	N	GLY A	4122.847	15.258	-10.956	1.00	0.00	N
	ATOM33	CA	GLY A	4122.325	13.942	-11.272	1.00	0.00	C
	ATOM34	C	GLY A	4121.131	13.570	-10.416	1.00	0.00	C
	ATOM35	O	GLY A	4120.014	13.442	-10.917	1.00	0.00	O
	ATOM36	H	GLY A	4122.901	15.549	-10.021	1.00	0.00	H

	ATOM37	1HA	GLY A	4122.029	13.925	-12.310	1.00	0.00	H
	ATOM38	2HA	GLY A	4123.105	13.211	-11.120	1.00	0.00	H
	ATOM39	N	SER A	5121.366	13.394	-9.120	1.00	0.00	N
	ATOM40	CA	SER A	5120.300	13.034	-8.191	1.00	0.00	C
5	ATOM41	C	SER A	5120.725	13.292	-6.750	1.00	0.00	C
	ATOM42	O	SER A	5121.804	13.829	-6.496	1.00	0.00	O
	ATOM43	CB	SER A	5119.918	11.564	-8.367	1.00	0.00	C
	ATOM44	OG	SER A	5118.602	11.319	-7.902	1.00	0.00	O
	ATOM45	H	SER A	5122.278	13.510	-8.780	1.00	0.00	H
10	ATOM46	HA	SER A	5119.443	13.650	-8.417	1.00	0.00	H
	ATOM47	1HB	SER A	5119.969	11.303	-9.414	1.00	0.00	H
	ATOM48	2HB	SER A	5120.605	10.946	-7.809	1.00	0.00	H
	ATOM49	HG	SER A	5117.985	11.880	-8.377	1.00	0.00	H
	ATOM50	N	SER A	6119.871	12.904	-5.808	1.00	0.00	N
15	ATOM51	CA	SER A	6120.158	13.094	-4.391	1.00	0.00	C
	ATOM52	C	SER A	6120.904	11.891	-3.822	1.00	0.00	C
	ATOM53	O	SER A	6120.766	10.772	-4.314	1.00	0.00	O
	ATOM54	CB	SER A	6118.860	13.318	-3.612	1.00	0.00	C
	ATOM55	OG	SER A	6118.541	14.697	-3.538	1.00	0.00	O
20	ATOM56	H	SER A	6119.027	12.481	-6.073	1.00	0.00	H
	ATOM57	HA	SER A	6120.782	13.969	-4.293	1.00	0.00	H
	ATOM58	1HB	SER A	6118.052	12.801	-4.106	1.00	0.00	H
	ATOM59	2HB	SER A	6118.975	12.933	-2.609	1.00	0.00	H
	ATOM60	HG	SER A	6118.107	14.880	-2.702	1.00	0.00	H
25	ATOM61	N	GLY A	7121.697	12.132	-2.782	1.00	0.00	N
	ATOM62	CA	GLY A	7122.455	11.059	-2.163	1.00	0.00	C
	ATOM63	C	GLY A	7123.939	11.360	-2.100	1.00	0.00	C
	ATOM64	O	GLY A	7124.349	12.392	-1.568	1.00	0.00	O
	ATOM65	H	GLY A	7121.768	13.044	-2.433	1.00	0.00	H

	ATOM66	1HA	GLY A	7122.086	10.908	-1.159	1.00	0.00	H
	ATOM67	2HA	GLY A	7122.306	10.153	-2.730	1.00	0.00	H
	ATOM68	N	LEU A	8124.747	10.455	-2.645	1.00	0.00	N
	ATOM69	CA	LEU A	8126.195	10.628	-2.648	1.00	0.00	C
5	ATOM70	C	LEU A	8126.735	10.727	-1.225	1.00	0.00	C
	ATOM71	O	LEU A	8126.956	11.822	-0.708	1.00	0.00	O
	ATOM72	CB	LEU A	8126.578	11.881	-3.439	1.00	0.00	C
	ATOM73	CG	LEU A	8126.391	11.771	-4.954	1.00	0.00	C
	ATOM74	CD1	LEU A	8125.132	12.503	-5.392	1.00	0.00	C
10	ATOM75	CD2	LEU A	8127.609	12.320	-5.684	1.00	0.00	C
	ATOM76	H	LEU A	8124.360	9.653	-3.053	1.00	0.00	H
	ATOM77	HA	LEU A	8126.631	9.764	-3.127	1.00	0.00	H
	ATOM78	1HB	LEU A	8125.979	12.704	-3.080	1.00	0.00	H
	ATOM79	2HB	LEU A	8127.617	12.101	-3.241	1.00	0.00	H
15	ATOM80	HG	LEU A	8126.281	10.731	-5.222	1.00	0.00	H
	ATOM81	1HD1	LEU A	8125.389	13.502	-5.716	1.00	0.00	H
	ATOM82	2HD1	LEU A	8124.442	12.560	-4.564	1.00	0.00	H
	ATOM83	3HD1	LEU A	8124.669	11.968	-6.208	1.00	0.00	H
	ATOM84	1HD2	LEU A	8127.471	12.206	-6.749	1.00	0.00	H
20	ATOM85	2HD2	LEU A	8128.489	11.776	-5.375	1.00	0.00	H
	ATOM86	3HD2	LEU A	8127.731	13.366	-5.447	1.00	0.00	H
	ATOM87	N	ALA A	9126.946	9.575	-0.597	1.00	0.00	N
	ATOM88	CA	ALA A	9127.461	9.530	0.766	1.00	0.00	C
	ATOM89	C	ALA A	9128.987	9.538	0.777	1.00	0.00	C
25	ATOM90	O	ALA A	9129.620	8.618	1.295	1.00	0.00	O
	ATOM91	CB	ALA A	9126.930	8.302	1.490	1.00	0.00	C
	ATOM92	H	ALA A	9126.752	8.734	-1.062	1.00	0.00	H
	ATOM93	HA	ALA A	9127.103	10.408	1.285	1.00	0.00	H
	ATOM94	1HB	ALA A	9126.984	7.446	0.834	1.00	0.00	H

	ATOM95	2HB	ALA	A	9125.902	8.470	1.778	1.00	0.00	H	
	ATOM96	3HB	ALA	A	9127.525	8.119	2.372	1.00	0.00	H	
	ATOM97	N	MET	A	10129.571	10.584	0.201	1.00	0.00	N	
	ATOM98	CA	MET	A	10131.023	10.712	0.145	1.00	0.00	C	
5	ATOM99	C	MET	A	10131.429	12.104	-0.337	1.00	0.00	C	
	ATOM	100	O	MET	A	10132.025	12.252	-1.405	1.00	0.00	O
	ATOM	101	CB	MET	A	10131.614	9.645	-0.779	1.00	0.00	C
	ATOM	102	CG	MET	A	10130.848	9.478	-2.083	1.00	0.00	C
	ATOM	103	SD	MET	A	10131.914	9.566	-3.535	1.00	0.00	S
10	ATOM	104	CE	MET	A	10131.189	10.954	-4.404	1.00	0.00	C
	ATOM	105	H	MET	A	10129.013	11.286	-0.194	1.00	0.00	H
	ATOM	106	HA	MET	A	10131.407	10.564	1.143	1.00	0.00	H
	ATOM	107	1HB	MET	A	10132.633	9.913	-1.014	1.00	0.00	H
	ATOM	108	2HB	MET	A	10131.611	8.697	-0.261	1.00	0.00	H
15	ATOM	109	1HG	MET	A	10130.356	8.517	-2.075	1.00	0.00	H
	ATOM	110	2HG	MET	A	10130.106	10.259	-2.151	1.00	0.00	H
	ATOM	111	1HE	MET	A	10130.247	10.653	-4.838	1.00	0.00	H
	ATOM	112	2HE	MET	A	10131.859	11.279	-5.186	1.00	0.00	H
	ATOM	113	3HE	MET	A	10131.023	11.765	-3.711	1.00	0.00	H
20	ATOM	114	N	PRO	A	11131.111	13.149	0.447	1.00	0.00	N
	ATOM	115	CA	PRO	A	11131.448	14.531	0.093	1.00	0.00	C
	ATOM	116	C	PRO	A	11132.950	14.732	-0.102	1.00	0.00	C
	ATOM	117	O	PRO	A	11133.376	15.329	-1.090	1.00	0.00	O
	ATOM	118	CB	PRO	A	11130.946	15.355	1.283	1.00	0.00	C
25	ATOM	119	CG	PRO	A	11129.966	14.479	1.987	1.00	0.00	C
	ATOM	120	CD	PRO	A	11130.402	13.063	1.735	1.00	0.00	C
	ATOM	121	HA	PRO	A	11130.931	14.840	-0.803	1.00	0.00	H
	ATOM	122	1HB	PRO	A	11131.778	15.610	1.923	1.00	0.00	H
	ATOM	123	2HB	PRO	A	11130.476	16.258	0.923	1.00	0.00	H



	ATOM	124	1HG	PRO A	11129.982	14.690	3.045	1.00	0.00	H
	ATOM	125	2HG	PRO A	11128.975	14.641	1.587	1.00	0.00	H
	ATOM	126	1HD	PRO A	11131.065	12.727	2.519	1.00	0.00	H
	ATOM	127	2HD	PRO A	11129.544	12.412	1.659	1.00	0.00	H
5	ATOM	128	N	PRO A	12133.779	14.235	0.835	1.00	0.00	N
	ATOM	129	CA	PRO A	12135.238	14.369	0.742	1.00	0.00	C
	ATOM	130	C	PRO A	12135.783	13.801	-0.562	1.00	0.00	C
	ATOM	131	O	PRO A	12136.871	14.169	-1.006	1.00	0.00	O
	ATOM	132	CB	PRO A	12135.755	13.558	1.934	1.00	0.00	C
10	ATOM	133	CG	PRO A	12134.615	13.509	2.890	1.00	0.00	C
	ATOM	134	CD	PRO A	12133.371	13.501	2.049	1.00	0.00	C
	ATOM	135	HA	PRO A	12135.546	15.399	0.841	1.00	0.00	H
	ATOM	136	1HB	PRO A	12136.037	12.568	1.604	1.00	0.00	H
	ATOM	137	2HB	PRO A	12136.611	14.055	2.366	1.00	0.00	H
15	ATOM	138	1HG	PRO A	12134.672	12.609	3.484	1.00	0.00	H
	ATOM	139	2HG	PRO A	12134.632	14.382	3.526	1.00	0.00	H
	ATOM	140	1HD	PRO A	12133.084	12.488	1.809	1.00	0.00	H
	ATOM	141	2HD	PRO A	12132.570	14.012	2.558	1.00	0.00	H
	ATOM	142	N	GLY A	13135.020	12.900	-1.175	1.00	0.00	N
20	ATOM	143	CA	GLY A	13135.443	12.293	-2.423	1.00	0.00	C
	ATOM	144	C	GLY A	13135.739	10.814	-2.278	1.00	0.00	C
	ATOM	145	O	GLY A	13135.196	10.149	-1.395	1.00	0.00	O
	ATOM	146	H	GLY A	13134.162	12.644	-0.774	1.00	0.00	H
	ATOM	147	1HA	GLY A	13134.662	12.423	-3.156	1.00	0.00	H
25	ATOM	148	2HA	GLY A	13136.335	12.795	-2.771	1.00	0.00	H
	ATOM	149	N	ASN A	14136.601	10.296	-3.147	1.00	0.00	N
	ATOM	150	CA	ASN A	14136.968	8.885	-3.112	1.00	0.00	C
	ATOM	151	C	ASN A	14135.742	7.999	-3.313	1.00	0.00	C
	ATOM	152	O	ASN A	14134.635	8.494	-3.530	1.00	0.00	O

	ATOM	153	CB	ASN A	14137.644	8.545	-1.783	1.00	0.00	C
	ATOM	154	CG	ASN A	14138.954	9.284	-1.595	1.00	0.00	C
	ATOM	155	OD1	ASN A	14139.305	10.161	-2.385	1.00	0.00	O
	ATOM	156	ND2	ASN A	14139.687	8.933	-0.545	1.00	0.00	N
5	ATOM	157	H	ASN A	14137.000	10.876	-3.828	1.00	0.00	H
	ATOM	158	HA	ASN A	14137.664	8.704	-3.917	1.00	0.00	H
	ATOM	159	1HB	ASN A	14136.983	8.810	-0.971	1.00	0.00	H
	ATOM	160	2HB	ASN A	14137.842	7.484	-1.747	1.00	0.00	H
	ATOM	161	1HD2	ASN A	14139.345	8.227	0.043	1.00	0.00	H
10	ATOM	162	2HD2	ASN A	14140.538	9.395	-0.399	1.00	0.00	H
	ATOM	163	N	SER A	15135.948	6.689	-3.242	1.00	0.00	N
	ATOM	164	CA	SER A	15134.858	5.734	-3.416	1.00	0.00	C
	ATOM	165	C	SER A	15133.890	5.791	-2.239	1.00	0.00	C
	ATOM	166	O	SER A	15132.711	6.101	-2.407	1.00	0.00	O
15	ATOM	167	CB	SER A	15135.414	4.317	-3.566	1.00	0.00	C
	ATOM	168	OG	SER A	15136.208	3.959	-2.448	1.00	0.00	O
	ATOM	169	H	SER A	15136.852	6.355	-3.068	1.00	0.00	H
	ATOM	170	HA	SER A	15134.326	5.999	-4.317	1.00	0.00	H
	ATOM	171	1HB	SER A	15134.595	3.618	-3.647	1.00	0.00	H
20	ATOM	172	2HB	SER A	15136.023	4.263	-4.456	1.00	0.00	H
	ATOM	173	HG	SER A	15137.082	3.698	-2.747	1.00	0.00	H
	ATOM	174	N	HIS A	16134.398	5.491	-1.048	1.00	0.00	N
	ATOM	175	CA	HIS A	16133.578	5.509	0.159	1.00	0.00	C
	ATOM	176	C	HIS A	16134.260	6.307	1.267	1.00	0.00	C
25	ATOM	177	O	HIS A	16133.836	7.413	1.599	1.00	0.00	O
	ATOM	178	CB	HIS A	16133.304	4.080	0.634	1.00	0.00	C
	ATOM	179	CG	HIS A	16131.900	3.624	0.378	1.00	0.00	C
	ATOM	180	ND1	HIS A	16131.007	3.335	1.388	1.00	0.00	N
	ATOM	181	CD2	HIS A	16131.237	3.409	-0.782	1.00	0.00	C

	ATOM	182	CE1	HIS	A	16129.855	2.961	0.860	1.00	0.00	C
	ATOM	183	NE2	HIS	A	16129.968	2.997	-0.455	1.00	0.00	N
	ATOM	184	H	HIS	A	16135.345	5.253	-0.978	1.00	0.00	H
	ATOM	185	HA	HIS	A	16132.640	5.984	-0.086	1.00	0.00	H
5	ATOM	186	1HB	HIS	A	16133.970	3.403	0.122	1.00	0.00	H
	ATOM	187	2HB	HIS	A	16133.485	4.019	1.698	1.00	0.00	H
	ATOM	188	HD1	HIS	A	16131.190	3.395	2.350	1.00	0.00	H
	ATOM	189	HD2	HIS	A	16131.632	3.536	-1.780	1.00	0.00	H
	ATOM	190	HE1	HIS	A	16128.971	2.675	1.411	1.00	0.00	H
10	ATOM	191	HE2	HIS	A	16129.289	2.685	-1.088	1.00	0.00	H
	ATOM	192	N	GLY	A	17135.318	5.736	1.834	1.00	0.00	N
	ATOM	193	CA	GLY	A	17136.041	6.408	2.898	1.00	0.00	C
	ATOM	194	C	GLY	A	17137.368	5.742	3.205	1.00	0.00	C
	ATOM	195	O	GLY	A	17137.614	5.325	4.336	1.00	0.00	O
15	ATOM	196	H	GLY	A	17135.609	4.853	1.527	1.00	0.00	H
	ATOM	197	1HA	GLY	A	17136.223	7.431	2.604	1.00	0.00	H
	ATOM	198	2HA	GLY	A	17135.433	6.403	3.791	1.00	0.00	H
	ATOM	199	N	LEU	A	18138.224	5.641	2.194	1.00	0.00	N
	ATOM	200	CA	LEU	A	18139.533	5.020	2.360	1.00	0.00	C
20	ATOM	201	C	LEU	A	18140.585	6.058	2.735	1.00	0.00	C
	ATOM	202	O	LEU	A	18140.997	6.868	1.904	1.00	0.00	O
	ATOM	203	CB	LEU	A	18139.946	4.299	1.074	1.00	0.00	C
	ATOM	204	CG	LEU	A	18138.884	3.370	0.484	1.00	0.00	C
	ATOM	205	CD1	LEU	A	18139.224	3.020	-0.957	1.00	0.00	C
25	ATOM	206	CD2	LEU	A	18138.754	2.110	1.325	1.00	0.00	C
	ATOM	207	H	LEU	A	18137.969	5.991	1.314	1.00	0.00	H
	ATOM	208	HA	LEU	A	18139.458	4.296	3.158	1.00	0.00	H
	ATOM	209	1HB	LEU	A	18140.195	5.046	0.333	1.00	0.00	H
	ATOM	210	2HB	LEU	A	18140.828	3.714	1.282	1.00	0.00	H

	ATOM	211	HG	LEU	A	18137.929	3.877	0.487	1.00	0.00	H
	ATOM	212	1HD1	LEU	A	18140.293	3.082	-1.099	1.00	0.00	H
	ATOM	213	2HD1	LEU	A	18138.731	3.712	-1.622	1.00	0.00	H
	ATOM	214	3HD1	LEU	A	18138.890	2.015	-1.171	1.00	0.00	H
5	ATOM	215	1HD2	LEU	A	18139.718	1.634	1.411	1.00	0.00	H
	ATOM	216	2HD2	LEU	A	18138.058	1.432	0.852	1.00	0.00	H
	ATOM	217	3HD2	LEU	A	18138.390	2.369	2.308	1.00	0.00	H
	ATOM	218	N	GLU	A	19141.017	6.028	3.992	1.00	0.00	N
	ATOM	219	CA	GLU	A	19142.022	6.965	4.478	1.00	0.00	C
10	ATOM	220	C	GLU	A	19143.071	6.248	5.321	1.00	0.00	C
	ATOM	221	O	GLU	A	19143.018	5.031	5.491	1.00	0.00	O
	ATOM	222	CB	GLU	A	19141.360	8.074	5.299	1.00	0.00	C
	ATOM	223	CG	GLU	A	19140.503	7.556	6.441	1.00	0.00	C
	ATOM	224	CD	GLU	A	19139.214	8.339	6.604	1.00	0.00	C
15	ATOM	225	OE1	GLU	A	19138.659	8.787	5.579	1.00	0.00	O
	ATOM	226	OE2	GLU	A	19138.761	8.502	7.756	1.00	0.00	O
	ATOM	227	H	GLU	A	19140.651	5.358	4.607	1.00	0.00	H
	ATOM	228	HA	GLU	A	19142.506	7.405	3.619	1.00	0.00	H
	ATOM	229	1HB	GLU	A	19142.132	8.706	5.714	1.00	0.00	H
20	ATOM	230	2HB	GLU	A	19140.735	8.664	4.646	1.00	0.00	H
	ATOM	231	1HG	GLU	A	19140.256	6.523	6.249	1.00	0.00	H
	ATOM	232	2HG	GLU	A	19141.068	7.626	7.359	1.00	0.00	H
	ATOM	233	N	VAL	A	20144.023	7.011	5.846	1.00	0.00	N
	ATOM	234	CA	VAL	A	20145.085	6.447	6.672	1.00	0.00	C
25	ATOM	235	C	VAL	A	20144.518	5.816	7.939	1.00	0.00	C
	ATOM	236	O	VAL	A	20143.685	6.411	8.621	1.00	0.00	O
	ATOM	237	CB	VAL	A	20146.122	7.518	7.065	1.00	0.00	C
	ATOM	238	CG1	VAL	A	20147.296	6.884	7.795	1.00	0.00	C
	ATOM	239	CG2	VAL	A	20146.598	8.279	5.835	1.00	0.00	C

	ATOM	240	H	VAL	A	20144.013	7.976	5.675	1.00	0.00	H
	ATOM	241	HA	VAL	A	20145.587	5.685	6.095	1.00	0.00	H
	ATOM	242	HB	VAL	A	20145.648	8.220	7.734	1.00	0.00	H
	ATOM	243	1HG1	VAL	A	20148.120	7.582	7.825	1.00	0.00	H
5	ATOM	244	2HG1	VAL	A	20147.602	5.988	7.276	1.00	0.00	H
	ATOM	245	3HG1	VAL	A	20147.000	6.632	8.802	1.00	0.00	H
	ATOM	246	1HG2	VAL	A	20146.673	9.330	6.069	1.00	0.00	H
	ATOM	247	2HG2	VAL	A	20145.893	8.139	5.029	1.00	0.00	H
	ATOM	248	3HG2	VAL	A	20147.567	7.907	5.535	1.00	0.00	H
10	ATOM	249	N	GLY	A	21144.974	4.607	8.247	1.00	0.00	N
	ATOM	250	CA	GLY	A	21144.501	3.914	9.431	1.00	0.00	C
	ATOM	251	C	GLY	A	21143.495	2.828	9.106	1.00	0.00	C
	ATOM	252	O	GLY	A	21143.520	1.751	9.699	1.00	0.00	O
	ATOM	253	H	GLY	A	21145.639	4.181	7.665	1.00	0.00	H
15	ATOM	254	1HA	GLY	A	21145.347	3.468	9.935	1.00	0.00	H
	ATOM	255	2HA	GLY	A	21144.040	4.631	10.093	1.00	0.00	H
	ATOM	256	N	SER	A	22142.605	3.114	8.159	1.00	0.00	N
	ATOM	257	CA	SER	A	22141.584	2.153	7.757	1.00	0.00	C
	ATOM	258	C	SER	A	22142.168	1.099	6.821	1.00	0.00	C
20	ATOM	259	O	SER	A	22143.084	1.379	6.049	1.00	0.00	O
	ATOM	260	CB	SER	A	22140.421	2.872	7.070	1.00	0.00	C
	ATOM	261	OG	SER	A	22139.627	3.571	8.012	1.00	0.00	O
	ATOM	262	H	SER	A	22142.636	3.990	7.723	1.00	0.00	H
	ATOM	263	HA	SER	A	22141.218	1.664	8.647	1.00	0.00	H
25	ATOM	264	1HB	SER	A	22140.810	3.578	6.352	1.00	0.00	H
	ATOM	265	2HB	SER	A	22139.803	2.146	6.563	1.00	0.00	H
	ATOM	266	HG	SER	A	22139.120	4.251	7.562	1.00	0.00	H
	ATOM	267	N	LEU	A	23141.632	-0.115	6.897	1.00	0.00	N
	ATOM	268	CA	LEU	A	23142.098	-1.212	6.057	1.00	0.00	C

	ATOM	269	C	LEU A	23141.431	-1.171	4.687	1.00	0.00	C
	ATOM	270	O	LEU A	23140.263	-0.802	4.564	1.00	0.00	O
	ATOM	271	CB	LEU A	23141.820	-2.555	6.734	1.00	0.00	C
	ATOM	272	CG	LEU A	23142.685	-2.855	7.958	1.00	0.00	C
5	ATOM	273	CD1	LEU A	23141.930	-3.730	8.945	1.00	0.00	C
	ATOM	274	CD2	LEU A	23143.986	-3.523	7.539	1.00	0.00	C
	ATOM	275	H	LEU A	23140.904	-0.277	7.533	1.00	0.00	H
	ATOM	276	HA	LEU A	23143.165	-1.098	5.928	1.00	0.00	H
	ATOM	277	1HB	LEU A	23140.783	-2.572	7.039	1.00	0.00	H
10	ATOM	278	2HB	LEU A	23141.978	-3.339	6.009	1.00	0.00	H
	ATOM	279	HG	LEU A	23142.929	-1.927	8.454	1.00	0.00	H
	ATOM	280	1HD1	LEU A	23142.506	-3.832	9.853	1.00	0.00	H
	ATOM	281	2HD1	LEU A	23141.767	-4.705	8.511	1.00	0.00	H
	ATOM	282	3HD1	LEU A	23140.977	-3.276	9.173	1.00	0.00	H
15	ATOM	283	1HD2	LEU A	23144.455	-2.941	6.758	1.00	0.00	H
	ATOM	284	2HD2	LEU A	23143.779	-4.517	7.171	1.00	0.00	H
	ATOM	285	3HD2	LEU A	23144.650	-3.584	8.389	1.00	0.00	H
	ATOM	286	N	ALA A	24142.180	-1.554	3.658	1.00	0.00	N
	ATOM	287	CA	ALA A	24141.661	-1.562	2.296	1.00	0.00	C
20	ATOM	288	C	ALA A	24142.228	-2.732	1.500	1.00	0.00	C
	ATOM	289	O	ALA A	24143.420	-3.033	1.583	1.00	0.00	O
	ATOM	290	CB	ALA A	24141.979	-0.245	1.603	1.00	0.00	C
	ATOM	291	H	ALA A	24143.104	-1.837	3.819	1.00	0.00	H
	ATOM	292	HA	ALA A	24140.587	-1.663	2.349	1.00	0.00	H
25	ATOM	293	1HB	ALA A	24142.874	-0.358	1.009	1.00	0.00	H
	ATOM	294	2HB	ALA A	24142.134	0.524	2.345	1.00	0.00	H
	ATOM	295	3HB	ALA A	24141.155	0.033	0.962	1.00	0.00	H
	ATOM	296	N	GLU A	25141.369	-3.388	0.727	1.00	0.00	N
	ATOM	297	CA	GLU A	25141.786	-4.526	-0.084	1.00	0.00	C

	ATOM	298	C	GLU A	25141.885	-4.138	-1.555	1.00	0.00	C
	ATOM	299	O	GLU A	25140.962	-3.548	-2.117	1.00	0.00	O
	ATOM	300	CB	GLU A	25140.802	-5.686	0.084	1.00	0.00	C
	ATOM	301	CG	GLU A	25141.261	-6.974	-0.579	1.00	0.00	C
5	ATOM	302	CD	GLU A	25140.550	-7.240	-1.891	1.00	0.00	C
	ATOM	303	OE1	GLU A	25140.211	-8.414	-2.155	1.00	0.00	O
	ATOM	304	OE2	GLU A	25140.330	-6.277	-2.654	1.00	0.00	O
	ATOM	305	H	GLU A	25140.432	-3.101	0.703	1.00	0.00	H
	ATOM	306	HA	GLU A	25142.759	-4.839	0.261	1.00	0.00	H
10	ATOM	307	1HB	GLU A	25140.665	-5.878	1.138	1.00	0.00	H
	ATOM	308	2HB	GLU A	25139.853	-5.403	-0.348	1.00	0.00	H
	ATOM	309	1HG	GLU A	25142.322	-6.906	-0.771	1.00	0.00	H
	ATOM	310	2HG	GLU A	25141.069	-7.798	0.092	1.00	0.00	H
	ATOM	311	N	VAL A	26143.013	-4.472	-2.175	1.00	0.00	N
15	ATOM	312	CA	VAL A	26143.234	-4.159	-3.582	1.00	0.00	C
	ATOM	313	C	VAL A	26142.875	-5.344	-4.470	1.00	0.00	C
	ATOM	314	O	VAL A	26143.102	-6.498	-4.106	1.00	0.00	O
	ATOM	315	CB	VAL A	26144.698	-3.759	-3.844	1.00	0.00	C
	ATOM	316	CG1	VAL A	26144.864	-3.239	-5.263	1.00	0.00	C
20	ATOM	317	CG2	VAL A	26145.159	-2.722	-2.830	1.00	0.00	C
	ATOM	318	H	VAL A	26143.712	-4.941	-1.674	1.00	0.00	H
	ATOM	319	HA	VAL A	26142.602	-3.322	-3.840	1.00	0.00	H
	ATOM	320	HB	VAL A	26145.315	-4.638	-3.733	1.00	0.00	H
	ATOM	321	1HG1	VAL A	26143.919	-2.852	-5.618	1.00	0.00	H
25	ATOM	322	2HG1	VAL A	26145.187	-4.044	-5.907	1.00	0.00	H
	ATOM	323	3HG1	VAL A	26145.602	-2.450	-5.274	1.00	0.00	H
	ATOM	324	1HG2	VAL A	26145.819	-2.017	-3.312	1.00	0.00	H
	ATOM	325	2HG2	VAL A	26145.683	-3.214	-2.026	1.00	0.00	H
	ATOM	326	3HG2	VAL A	26144.300	-2.200	-2.434	1.00	0.00	H

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	ATOM	327	N	LYS A	27142.313	-5.052	-5.639	1.00	0.00	N
	ATOM	328	CA	LYS A	27141.922	-6.094	-6.581	1.00	0.00	C
	ATOM	329	C	LYS A	27143.099	-6.503	-7.462	1.00	0.00	C
	ATOM	330	O	LYS A	27143.028	-6.423	-8.689	1.00	0.00	O
5	ATOM	331	CB	LYS A	27140.758	-5.616	-7.450	1.00	0.00	C
	ATOM	332	CG	LYS A	27139.941	-6.748	-8.051	1.00	0.00	C
	ATOM	333	CD	LYS A	27138.455	-6.426	-8.056	1.00	0.00	C
	ATOM	334	CE	LYS A	27138.093	-5.490	-9.199	1.00	0.00	C
	ATOM	335	NZ	LYS A	27136.757	-5.806	-9.773	1.00	0.00	N
10	ATOM	336	H	LYS A	27142.157	-4.114	-5.874	1.00	0.00	H
	ATOM	337	HA	LYS A	27141.603	-6.954	-6.009	1.00	0.00	H
	ATOM	338	1HB	LYS A	27140.100	-5.008	-6.846	1.00	0.00	H
	ATOM	339	2HB	LYS A	27141.148	-5.014	-8.257	1.00	0.00	H
	ATOM	340	1HG	LYS A	27140.267	-6.913	-9.068	1.00	0.00	H
15	ATOM	341	2HG	LYS A	27140.104	-7.644	-7.470	1.00	0.00	H
	ATOM	342	1HD	LYS A	27137.898	-7.344	-8.166	1.00	0.00	H
	ATOM	343	2HD	LYS A	27138.196	-5.954	-7.120	1.00	0.00	H
	ATOM	344	1HE	LYS A	27138.083	-4.476	-8.826	1.00	0.00	H
	ATOM	345	2HE	LYS A	27138.840	-5.581	-9.973	1.00	0.00	H
20	ATOM	346	1HZ	LYS A	27136.863	-6.410	-10.613	1.00	0.00	H
	ATOM	347	2HZ	LYS A	27136.269	-4.931	-10.049	1.00	0.00	H
	ATOM	348	3HZ	LYS A	27136.175	-6.307	-9.072	1.00	0.00	H
	ATOM	349	N	GLU A	28144.182	-6.941	-6.829	1.00	0.00	N
	ATOM	350	CA	GLU A	28145.374	-7.363	-7.554	1.00	0.00	C
25	ATOM	351	C	GLU A	28145.422	-8.882	-7.682	1.00	0.00	C
	ATOM	352	O	GLU A	28144.507	-9.581	-7.248	1.00	0.00	O
	ATOM	353	CB	GLU A	28146.634	-6.857	-6.845	1.00	0.00	C
	ATOM	354	CG	GLU A	28147.639	-6.209	-7.782	1.00	0.00	C
	ATOM	355	CD	GLU A	28148.605	-5.292	-7.057	1.00	0.00	C



	ATOM	356	OE1	GLU	A	28148.525	-4.063	-7.264	1.00	0.00	0
	ATOM	357	OE2	GLU	A	28149.440	-5.803	-6.282	1.00	0.00	0
	ATOM	358	H	GLU	A	28144.179	-6.982	-5.849	1.00	0.00	H
	ATOM	359	HA	GLU	A	28145.331	-6.931	-8.542	1.00	0.00	H
5	ATOM	360	1HB	GLU	A	28146.346	-6.129	-6.102	1.00	0.00	H
	ATOM	361	2HB	GLU	A	28147.116	-7.689	-6.354	1.00	0.00	H
	ATOM	362	1HG	GLU	A	28148.206	-6.984	-8.275	1.00	0.00	H
	ATOM	363	2HG	GLU	A	28147.103	-5.631	-8.521	1.00	0.00	H
	ATOM	364	N	ASN	A	29146.495	-9.387	-8.282	1.00	0.00	N
10	ATOM	365	CA	ASN	A	29146.661	-10.823	-8.467	1.00	0.00	C
	ATOM	366	C	ASN	A	29146.743	-11.539	-7.120	1.00	0.00	C
	ATOM	367	O	ASN	A	29145.928	-12.410	-6.820	1.00	0.00	O
	ATOM	368	CB	ASN	A	29147.918	-11.112	-9.291	1.00	0.00	C
	ATOM	369	CG	ASN	A	29147.608	-11.324	-10.760	1.00	0.00	C
15	ATOM	370	OD1	ASN	A	29147.598	-12.454	-11.248	1.00	0.00	O
	ATOM	371	ND2	ASN	A	29147.356	-10.233	-11.475	1.00	0.00	N
	ATOM	372	H	ASN	A	29147.192	-8.780	-8.608	1.00	0.00	H
	ATOM	373	HA	ASN	A	29145.798	-11.190	-9.003	1.00	0.00	H
	ATOM	374	1HB	ASN	A	29148.598	-10.277	-9.203	1.00	0.00	H
20	ATOM	375	2HB	ASN	A	29148.395	-12.002	-8.910	1.00	0.00	H
	ATOM	376	1HD2	ASN	A	29147.382	-9.365	-11.020	1.00	0.00	H
	ATOM	377	2HD2	ASN	A	29147.152	-10.341	-12.427	1.00	0.00	H
	ATOM	378	N	PRO	A	30147.733	-11.175	-6.287	1.00	0.00	N
	ATOM	379	CA	PRO	A	30147.919	-11.784	-4.967	1.00	0.00	C
25	ATOM	380	C	PRO	A	30146.921	-11.253	-3.938	1.00	0.00	C
	ATOM	381	O	PRO	A	30147.010	-10.099	-3.519	1.00	0.00	O
	ATOM	382	CB	PRO	A	30149.341	-11.369	-4.593	1.00	0.00	C
	ATOM	383	CG	PRO	A	30149.544	-10.067	-5.286	1.00	0.00	C
	ATOM	384	CD	PRO	A	30148.751	-10.141	-6.565	1.00	0.00	C

	ATOM	385	HA	PRO A	30147.855	-12.860	-5.014	1.00	0.00	H
	ATOM	386	1HB	PRO A	30149.419	-11.265	-3.521	1.00	0.00	H
	ATOM	387	2HB	PRO A	30150.040	-12.115	-4.942	1.00	0.00	H
	ATOM	388	1HG	PRO A	30149.181	-9.261	-4.667	1.00	0.00	H
5	ATOM	389	2HG	PRO A	30150.593	-9.927	-5.506	1.00	0.00	H
	ATOM	390	1HD	PRO A	30148.285	-9.191	-6.775	1.00	0.00	H
	ATOM	391	2HD	PRO A	30149.386	-10.439	-7.385	1.00	0.00	H
	ATOM	392	N	PRO A	31145.956	-12.087	-3.514	1.00	0.00	N
	ATOM	393	CA	PRO A	31144.946	-11.687	-2.529	1.00	0.00	C
10	ATOM	394	C	PRO A	31145.541	-11.490	-1.138	1.00	0.00	C
	ATOM	395	O	PRO A	31145.621	-12.431	-0.349	1.00	0.00	O
	ATOM	396	CB	PRO A	31143.962	-12.857	-2.529	1.00	0.00	C
	ATOM	397	CG	PRO A	31144.764	-14.027	-2.981	1.00	0.00	C
	ATOM	398	CD	PRO A	31145.771	-13.483	-3.957	1.00	0.00	C
15	ATOM	399	HA	PRO A	31144.436	-10.783	-2.831	1.00	0.00	H
	ATOM	400	1HB	PRO A	31143.574	-13.006	-1.531	1.00	0.00	H
	ATOM	401	2HB	PRO A	31143.149	-12.649	-3.209	1.00	0.00	H
	ATOM	402	1HG	PRO A	31145.264	-14.479	-2.137	1.00	0.00	H
	ATOM	403	2HG	PRO A	31144.123	-14.746	-3.468	1.00	0.00	H
20	ATOM	404	1HD	PRO A	31146.697	-14.035	-3.889	1.00	0.00	H
	ATOM	405	2HD	PRO A	31145.380	-13.519	-4.963	1.00	0.00	H
	ATOM	406	N	PHE A	32145.954	-10.262	-0.844	1.00	0.00	N
	ATOM	407	CA	PHE A	32146.541	-9.942	0.452	1.00	0.00	C
	ATOM	408	C	PHE A	32145.685	-8.925	1.201	1.00	0.00	C
25	ATOM	409	O	PHE A	32144.726	-8.383	0.652	1.00	0.00	O
	ATOM	410	CB	PHE A	32147.959	-9.398	0.273	1.00	0.00	C
	ATOM	411	CG	PHE A	32148.045	-8.250	-0.693	1.00	0.00	C
	ATOM	412	CD1	PHE A	32148.676	-8.404	-1.917	1.00	0.00	C
	ATOM	413	CD2	PHE A	32147.495	-7.019	-0.376	1.00	0.00	C

	ATOM	414	CE1	PHE	A	32148.757	-7.350	-2.808	1.00	0.00	C
	ATOM	415	CE2	PHE	A	32147.573	-5.962	-1.262	1.00	0.00	C
	ATOM	416	CZ	PHE	A	32148.205	-6.127	-2.480	1.00	0.00	C
	ATOM	417	H	PHE	A	32145.862	-9.553	-1.515	1.00	0.00	H
5	ATOM	418	HA	PHE	A	32146.585	-10.853	1.030	1.00	0.00	H
	ATOM	419	1HB	PHE	A	32148.329	-9.056	1.228	1.00	0.00	H
	ATOM	420	2HB	PHE	A	32148.597	-10.190	-0.093	1.00	0.00	H
	ATOM	421	HD1	PHE	A	32149.108	-9.360	-2.174	1.00	0.00	H
	ATOM	422	HD2	PHE	A	32147.001	-6.889	0.575	1.00	0.00	H
10	ATOM	423	HE1	PHE	A	32149.252	-7.482	-3.758	1.00	0.00	H
	ATOM	424	HE2	PHE	A	32147.140	-5.006	-1.004	1.00	0.00	H
	ATOM	425	HZ	PHE	A	32148.266	-5.302	-3.174	1.00	0.00	H
	ATOM	426	N	TYR	A	33146.038	-8.673	2.456	1.00	0.00	N
	ATOM	427	CA	TYR	A	33145.302	-7.722	3.281	1.00	0.00	C
15	ATOM	428	C	TYR	A	33146.253	-6.758	3.983	1.00	0.00	C
	ATOM	429	O	TYR	A	33147.107	-7.174	4.765	1.00	0.00	O
	ATOM	430	CB	TYR	A	33144.453	-8.462	4.315	1.00	0.00	C
	ATOM	431	CG	TYR	A	33143.141	-8.978	3.767	1.00	0.00	C
	ATOM	432	CD1	TYR	A	33142.756	-10.298	3.963	1.00	0.00	C
20	ATOM	433	CD2	TYR	A	33142.290	-8.145	3.051	1.00	0.00	C
	ATOM	434	CE1	TYR	A	33141.559	-10.773	3.462	1.00	0.00	C
	ATOM	435	CE2	TYR	A	33141.092	-8.612	2.547	1.00	0.00	C
	ATOM	436	CZ	TYR	A	33140.731	-9.927	2.755	1.00	0.00	C
	ATOM	437	OH	TYR	A	33139.538	-10.397	2.256	1.00	0.00	O
25	ATOM	438	H	TYR	A	33146.812	-9.137	2.838	1.00	0.00	H
	ATOM	439	HA	TYR	A	33144.650	-7.156	2.632	1.00	0.00	H
	ATOM	440	1HB	TYR	A	33145.010	-9.308	4.690	1.00	0.00	H
	ATOM	441	2HB	TYR	A	33144.231	-7.793	5.134	1.00	0.00	H
	ATOM	442	HD1	TYR	A	33143.406	-10.958	4.516	1.00	0.00	H

	ATOM	443	HD2	TYR	A	33142.577	-7.116	2.889	1.00	0.00	H
	ATOM	444	HE1	TYR	A	33141.276	-11.802	3.625	1.00	0.00	H
	ATOM	445	HE2	TYR	A	33140.443	-7.949	1.995	1.00	0.00	H
	ATOM	446	HH	TYR	A	33139.663	-11.281	1.906	1.00	0.00	H
5	ATOM	447	N	GLY	A	34146.099	-5.469	3.698	1.00	0.00	N
	ATOM	448	CA	GLY	A	34146.951	-4.466	4.310	1.00	0.00	C
	ATOM	449	C	GLY	A	34146.174	-3.251	4.775	1.00	0.00	C
	ATOM	450	O	GLY	A	34144.997	-3.095	4.450	1.00	0.00	O
	ATOM	451	H	GLY	A	34145.401	-5.196	3.066	1.00	0.00	H
10	ATOM	452	1HA	GLY	A	34147.453	-4.907	5.160	1.00	0.00	H
	ATOM	453	2HA	GLY	A	34147.693	-4.153	3.591	1.00	0.00	H
	ATOM	454	N	VAL	A	35146.834	-2.386	5.539	1.00	0.00	N
	ATOM	455	CA	VAL	A	35146.199	-1.178	6.051	1.00	0.00	C
	ATOM	456	C	VAL	A	35146.808	0.071	5.421	1.00	0.00	C
15	ATOM	457	O	VAL	A	35148.011	0.125	5.164	1.00	0.00	O
	ATOM	458	CB	VAL	A	35146.323	-1.085	7.585	1.00	0.00	C
	ATOM	459	CG1	VAL	A	35147.784	-1.017	8.004	1.00	0.00	C
	ATOM	460	CG2	VAL	A	35145.552	0.115	8.113	1.00	0.00	C
	ATOM	461	H	VAL	A	35147.771	-2.566	5.764	1.00	0.00	H
20	ATOM	462	HA	VAL	A	35145.150	-1.221	5.797	1.00	0.00	H
	ATOM	463	HB	VAL	A	35145.892	-1.978	8.014	1.00	0.00	H
	ATOM	464	1HG1	VAL	A	35148.204	-0.071	7.695	1.00	0.00	H
	ATOM	465	2HG1	VAL	A	35148.330	-1.823	7.536	1.00	0.00	H
	ATOM	466	3HG1	VAL	A	35147.856	-1.109	9.077	1.00	0.00	H
25	ATOM	467	1HG2	VAL	A	35145.807	0.279	9.150	1.00	0.00	H
	ATOM	468	2HG2	VAL	A	35144.492	-0.072	8.028	1.00	0.00	H
	ATOM	469	3HG2	VAL	A	35145.810	0.992	7.536	1.00	0.00	H
	ATOM	470	N	ILE	A	36145.971	1.073	5.176	1.00	0.00	N
	ATOM	471	CA	ILE	A	36146.429	2.321	4.577	1.00	0.00	C

	ATOM	472	C	ILE A	36147.374	3.064	5.516	1.00	0.00	C
	ATOM	473	O	ILE A	36147.092	3.216	6.705	1.00	0.00	O
	ATOM	474	CB	ILE A	36145.246	3.243	4.222	1.00	0.00	C
	ATOM	475	CG1	ILE A	36144.208	2.484	3.392	1.00	0.00	C
5	ATOM	476	CG2	ILE A	36145.738	4.471	3.468	1.00	0.00	C
	ATOM	477	CD1	ILE A	36142.999	3.317	3.025	1.00	0.00	C
	ATOM	478	H	ILE A	36145.024	0.971	5.403	1.00	0.00	H
	ATOM	479	HA	ILE A	36146.957	2.080	3.666	1.00	0.00	H
	ATOM	480	HB	ILE A	36144.788	3.577	5.141	1.00	0.00	H
10	ATOM	481	1HG1	ILE A	36144.667	2.145	2.476	1.00	0.00	H
	ATOM	482	2HG1	ILE A	36143.863	1.628	3.955	1.00	0.00	H
	ATOM	483	1HG2	ILE A	36145.851	5.295	4.157	1.00	0.00	H
	ATOM	484	2HG2	ILE A	36145.022	4.736	2.703	1.00	0.00	H
	ATOM	485	3HG2	ILE A	36146.690	4.253	3.008	1.00	0.00	H
15	ATOM	486	1HD1	ILE A	36143.202	4.357	3.236	1.00	0.00	H
	ATOM	487	2HD1	ILE A	36142.148	2.992	3.605	1.00	0.00	H
	ATOM	488	3HD1	ILE A	36142.786	3.198	1.974	1.00	0.00	H
	ATOM	489	N	ARG A	37148.499	3.521	4.974	1.00	0.00	N
	ATOM	490	CA	ARG A	37149.487	4.246	5.763	1.00	0.00	C
20	ATOM	491	C	ARG A	37149.637	5.680	5.265	1.00	0.00	C
	ATOM	492	O	ARG A	37149.354	6.632	5.992	1.00	0.00	O
	ATOM	493	CB	ARG A	37150.838	3.530	5.706	1.00	0.00	C
	ATOM	494	CG	ARG A	37150.753	2.046	6.021	1.00	0.00	C
	ATOM	495	CD	ARG A	37150.195	1.803	7.414	1.00	0.00	C
25	ATOM	496	NE	ARG A	37151.099	2.281	8.457	1.00	0.00	N
	ATOM	497	CZ	ARG A	37150.986	1.952	9.743	1.00	0.00	C
	ATOM	498	NH1	ARG A	37150.012	1.148	10.146	1.00	0.00	N
	ATOM	499	NH2	ARG A	37151.853	2.429	10.626	1.00	0.00	N
	ATOM	500	H	ARG A	37148.667	3.368	4.021	1.00	0.00	H

	ATOM	501	HA	ARG A	37149.145	4.267	6.787	1.00	0.00	H
	ATOM	502	1HB	ARG A	37151.251	3.643	4.714	1.00	0.00	H
	ATOM	503	2HB	ARG A	37151.507	3.990	6.419	1.00	0.00	H
	ATOM	504	1HG	ARG A	37150.108	1.570	5.298	1.00	0.00	H
5	ATOM	505	2HG	ARG A	37151.743	1.618	5.960	1.00	0.00	H
	ATOM	506	1HD	ARG A	37149.251	2.321	7.505	1.00	0.00	H
	ATOM	507	2HD	ARG A	37150.037	0.742	7.545	1.00	0.00	H
	ATOM	508	HE	ARG A	37151.828	2.877	8.187	1.00	0.00	H
	ATOM	509	1HH1	ARG A	37149.355	0.785	9.486	1.00	0.00	H
10	ATOM	510	2HH1	ARG A	37149.933	0.905	11.114	1.00	0.00	H
	ATOM	511	1HH2	ARG A	37152.590	3.035	10.327	1.00	0.00	H
	ATOM	512	2HH2	ARG A	37151.769	2.182	11.592	1.00	0.00	H
	ATOM	513	N	TRP A	38150.084	5.827	4.022	1.00	0.00	N
	ATOM	514	CA	TRP A	38150.270	7.146	3.428	1.00	0.00	C
15	ATOM	515	C	TRP A	38149.501	7.268	2.117	1.00	0.00	C
	ATOM	516	O	TRP A	38149.565	6.385	1.262	1.00	0.00	O
	ATOM	517	CB	TRP A	38151.761	7.418	3.190	1.00	0.00	C
	ATOM	518	CG	TRP A	38152.021	8.634	2.350	1.00	0.00	C
	ATOM	519	CD1	TRP A	38152.212	9.911	2.791	1.00	0.00	C
20	ATOM	520	CD2	TRP A	38152.116	8.683	0.922	1.00	0.00	C
	ATOM	521	NE1	TRP A	38152.417	10.753	1.725	1.00	0.00	N
	ATOM	522	CE2	TRP A	38152.363	10.022	0.565	1.00	0.00	C
	ATOM	523	CE3	TRP A	38152.014	7.725	-0.090	1.00	0.00	C
	ATOM	524	CZ2	TRP A	38152.511	10.424	-0.760	1.00	0.00	C
25	ATOM	525	CZ3	TRP A	38152.162	8.125	-1.405	1.00	0.00	C
	ATOM	526	CH2	TRP A	38152.408	9.465	-1.729	1.00	0.00	C
	ATOM	527	H	TRP A	38150.293	5.030	3.491	1.00	0.00	H
	ATOM	528	HA	TRP A	38149.888	7.879	4.123	1.00	0.00	H
	ATOM	529	1HB	TRP A	38152.250	7.560	4.142	1.00	0.00	H

	ATOM	530	2HB	TRP	A	38152.198	6.566	2.690	1.00	0.00	H
	ATOM	531	HD1	TRP	A	38152.198	10.204	3.831	1.00	0.00	H
	ATOM	532	HE1	TRP	A	38152.577	11.718	1.783	1.00	0.00	H
	ATOM	533	HE3	TRP	A	38151.825	6.687	0.140	1.00	0.00	H
5	ATOM	534	HZ2	TRP	A	38152.699	11.454	-1.027	1.00	0.00	H
	ATOM	535	HZ3	TRP	A	38152.087	7.398	-2.200	1.00	0.00	H
	ATOM	536	HH2	TRP	A	38152.516	9.733	-2.771	1.00	0.00	H
	ATOM	537	N	ILE	A	39148.781	8.374	1.963	1.00	0.00	N
	ATOM	538	CA	ILE	A	39148.004	8.624	0.756	1.00	0.00	C
10	ATOM	539	C	ILE	A	39148.406	9.950	0.121	1.00	0.00	C
	ATOM	540	O	ILE	A	39148.069	11.019	0.631	1.00	0.00	O
	ATOM	541	CB	ILE	A	39146.492	8.645	1.051	1.00	0.00	C
	ATOM	542	CG1	ILE	A	39146.088	7.406	1.853	1.00	0.00	C
	ATOM	543	CG2	ILE	A	39145.699	8.725	-0.245	1.00	0.00	C
15	ATOM	544	CD1	ILE	A	39144.772	7.560	2.583	1.00	0.00	C
	ATOM	545	H	ILE	A	39148.776	9.043	2.680	1.00	0.00	H
	ATOM	546	HA	ILE	A	39148.205	7.824	0.056	1.00	0.00	H
	ATOM	547	HB	ILE	A	39146.274	9.527	1.633	1.00	0.00	H
	ATOM	548	1HG1	ILE	A	39145.997	6.564	1.182	1.00	0.00	H
20	ATOM	549	2HG1	ILE	A	39146.852	7.195	2.587	1.00	0.00	H
	ATOM	550	1HG2	ILE	A	39144.687	9.034	-0.029	1.00	0.00	H
	ATOM	551	2HG2	ILE	A	39145.686	7.756	-0.720	1.00	0.00	H
	ATOM	552	3HG2	ILE	A	39146.162	9.443	-0.905	1.00	0.00	H
	ATOM	553	1HD1	ILE	A	39144.751	8.514	3.089	1.00	0.00	H
25	ATOM	554	2HD1	ILE	A	39144.666	6.766	3.306	1.00	0.00	H
	ATOM	555	3HD1	ILE	A	39143.960	7.512	1.874	1.00	0.00	H
	ATOM	556	N	GLY	A	40149.135	9.876	-0.987	1.00	0.00	N
	ATOM	557	CA	GLY	A	40149.575	11.083	-1.663	1.00	0.00	C
	ATOM	558	C	GLY	A	40150.097	10.816	-3.060	1.00	0.00	C

	ATOM	559	O	GLY A	40149.921	9.724	-3.600	1.00	0.00	O
	ATOM	560	H	GLY A	40149.378	8.997	-1.348	1.00	0.00	H
	ATOM	561	1HA	GLY A	40148.745	11.769	-1.727	1.00	0.00	H
	ATOM	562	2HA	GLY A	40150.359	11.540	-1.079	1.00	0.00	H
5	ATOM	563	N	GLN A	41150.741	11.820	-3.644	1.00	0.00	N
	ATOM	564	CA	GLN A	41151.294	11.701	-4.987	1.00	0.00	C
	ATOM	565	C	GLN A	41152.768	12.102	-5.001	1.00	0.00	C
	ATOM	566	O	GLN A	41153.105	13.259	-4.749	1.00	0.00	O
	ATOM	567	CB	GLN A	41150.504	12.581	-5.956	1.00	0.00	C
10	ATOM	568	CG	GLN A	41148.998	12.402	-5.849	1.00	0.00	C
	ATOM	569	CD	GLN A	41148.246	13.712	-5.972	1.00	0.00	C
	ATOM	570	OE1	GLN A	41148.223	14.518	-5.040	1.00	0.00	O
	ATOM	571	NE2	GLN A	41147.627	13.933	-7.125	1.00	0.00	N
	ATOM	572	H	GLN A	41150.847	12.665	-3.160	1.00	0.00	H
15	ATOM	573	HA	GLN A	41151.205	10.672	-5.295	1.00	0.00	H
	ATOM	574	1HB	GLN A	41150.737	13.616	-5.753	1.00	0.00	H
	ATOM	575	2HB	GLN A	41150.804	12.344	-6.964	1.00	0.00	H
	ATOM	576	1HG	GLN A	41148.670	11.741	-6.637	1.00	0.00	H
	ATOM	577	2HG	GLN A	41148.767	11.960	-4.891	1.00	0.00	H
20	ATOM	578	1HE2	GLN A	41147.689	13.246	-7.822	1.00	0.00	H
	ATOM	579	2HE2	GLN A	41147.135	14.773	-7.233	1.00	0.00	H
	ATOM	580	N	PRO A	42153.674	11.150	-5.295	1.00	0.00	N
	ATOM	581	CA	PRO A	42155.115	11.422	-5.336	1.00	0.00	C
	ATOM	582	C	PRO A	42155.468	12.529	-6.324	1.00	0.00	C
25	ATOM	583	O	PRO A	42154.696	12.830	-7.233	1.00	0.00	O
	ATOM	584	CB	PRO A	42155.723	10.089	-5.787	1.00	0.00	C
	ATOM	585	CG	PRO A	42154.699	9.066	-5.440	1.00	0.00	C
	ATOM	586	CD	PRO A	42153.371	9.743	-5.609	1.00	0.00	C
	ATOM	587	HA	PRO A	42155.495	11.680	-4.358	1.00	0.00	H



	ATOM	588	1HB	PRO A	42155.909	10.118	-6.851	1.00	0.00	H
	ATOM	589	2HB	PRO A	42156.648	9.915	-5.259	1.00	0.00	H
	ATOM	590	1HG	PRO A	42154.778	8.222	-6.110	1.00	0.00	H
	ATOM	591	2HG	PRO A	42154.830	8.746	-4.416	1.00	0.00	H
5	ATOM	592	1HD	PRO A	42153.021	9.641	-6.626	1.00	0.00	H
	ATOM	593	2HD	PRO A	42152.648	9.341	-4.916	1.00	0.00	H
	ATOM	594	N	PRO A	43156.647	13.151	-6.158	1.00	0.00	N
	ATOM	595	CA	PRO A	43157.102	14.228	-7.040	1.00	0.00	C
	ATOM	596	C	PRO A	43157.497	13.719	-8.421	1.00	0.00	C
10	ATOM	597	O	PRO A	43158.662	13.408	-8.668	1.00	0.00	O
	ATOM	598	CB	PRO A	43158.322	14.792	-6.312	1.00	0.00	C
	ATOM	599	CG	PRO A	43158.835	13.657	-5.497	1.00	0.00	C
	ATOM	600	CD	PRO A	43157.629	12.850	-5.098	1.00	0.00	C
	ATOM	601	HA	PRO A	43156.351	14.999	-7.142	1.00	0.00	H
15	ATOM	602	1HB	PRO A	43159.052	15.121	-7.037	1.00	0.00	H
	ATOM	603	2HB	PRO A	43158.023	15.622	-5.691	1.00	0.00	H
	ATOM	604	1HG	PRO A	43159.510	13.056	-6.088	1.00	0.00	H
	ATOM	605	2HG	PRO A	43159.339	14.035	-4.619	1.00	0.00	H
	ATOM	606	1HD	PRO A	43157.869	11.797	-5.082	1.00	0.00	H
20	ATOM	607	2HD	PRO A	43157.264	13.170	-4.134	1.00	0.00	H
	ATOM	608	N	GLY A	44156.521	13.636	-9.317	1.00	0.00	N
	ATOM	609	CA	GLY A	44156.790	13.162	-10.661	1.00	0.00	C
	ATOM	610	C	GLY A	44155.552	12.623	-11.346	1.00	0.00	C
	ATOM	611	O	GLY A	44155.237	13.014	-12.471	1.00	0.00	O
25	ATOM	612	H	GLY A	44155.610	13.897	-9.064	1.00	0.00	H
	ATOM	613	1HA	GLY A	44157.183	13.980	-11.245	1.00	0.00	H
	ATOM	614	2HA	GLY A	44157.532	12.380	-10.613	1.00	0.00	H
	ATOM	615	N	LEU A	45154.848	11.724	-10.670	1.00	0.00	N
	ATOM	616	CA	LEU A	45153.637	11.131	-11.224	1.00	0.00	C

	ATOM	617	C	LEU A	45152.440	11.401	-10.319	1.00	0.00	C
	ATOM	618	O	LEU A	45152.369	10.888	-9.203	1.00	0.00	O
	ATOM	619	CB	LEU A	45153.820	9.623	-11.409	1.00	0.00	C
	ATOM	620	CG	LEU A	45154.384	8.886	-10.192	1.00	0.00	C
5	ATOM	621	CD1	LEU A	45154.025	7.407	-10.247	1.00	0.00	C
	ATOM	622	CD2	LEU A	45155.893	9.072	-10.107	1.00	0.00	C
	ATOM	623	H	LEU A	45155.148	11.452	-9.775	1.00	0.00	H
	ATOM	624	HA	LEU A	45153.455	11.583	-12.186	1.00	0.00	H
	ATOM	625	1HB	LEU A	45152.860	9.192	-11.653	1.00	0.00	H
10	ATOM	626	2HB	LEU A	45154.490	9.462	-12.240	1.00	0.00	H
	ATOM	627	HG	LEU A	45153.945	9.301	-9.295	1.00	0.00	H
	ATOM	628	1HD1	LEU A	45153.490	7.134	-9.349	1.00	0.00	H
	ATOM	629	2HD1	LEU A	45154.928	6.819	-10.320	1.00	0.00	H
	ATOM	630	3HD1	LEU A	45153.402	7.218	-11.108	1.00	0.00	H
15	ATOM	631	1HD2	LEU A	45156.162	9.381	-9.108	1.00	0.00	H
	ATOM	632	2HD2	LEU A	45156.205	9.827	-10.813	1.00	0.00	H
	ATOM	633	3HD2	LEU A	45156.385	8.138	-10.339	1.00	0.00	H
	ATOM	634	N	ASN A	46151.505	12.210	-10.803	1.00	0.00	N
	ATOM	635	CA	ASN A	46150.318	12.539	-10.025	1.00	0.00	C
20	ATOM	636	C	ASN A	46149.367	11.349	-9.971	1.00	0.00	C
	ATOM	637	O	ASN A	46148.723	11.008	-10.964	1.00	0.00	O
	ATOM	638	CB	ASN A	46149.608	13.751	-10.630	1.00	0.00	C
	ATOM	639	CG	ASN A	46148.879	14.574	-9.586	1.00	0.00	C
	ATOM	640	OD1	ASN A	46147.654	14.691	-9.615	1.00	0.00	O
25	ATOM	641	ND2	ASN A	46149.632	15.152	-8.657	1.00	0.00	N
	ATOM	642	H	ASN A	46151.613	12.592	-11.699	1.00	0.00	H
	ATOM	643	HA	ASN A	46150.633	12.780	-9.020	1.00	0.00	H
	ATOM	644	1HB	ASN A	46150.337	14.383	-11.114	1.00	0.00	H
	ATOM	645	2HB	ASN A	46148.889	13.411	-11.361	1.00	0.00	H

	ATOM	646	1HD2	ASN	A	46150.602	15.015	-8.696	1.00	0.00	H
	ATOM	647	2HD2	ASN	A	46149.188	15.690	-7.970	1.00	0.00	H
	ATOM	648	N	GLU	A	47149.285	10.721	-8.804	1.00	0.00	N
	ATOM	649	CA	GLU	A	47148.415	9.568	-8.612	1.00	0.00	C
5	ATOM	650	C	GLU	A	47148.262	9.248	-7.130	1.00	0.00	C
	ATOM	651	O	GLU	A	47149.245	8.978	-6.440	1.00	0.00	O
	ATOM	652	CB	GLU	A	47148.970	8.349	-9.354	1.00	0.00	C
	ATOM	653	CG	GLU	A	47150.485	8.230	-9.290	1.00	0.00	C
	ATOM	654	CD	GLU	A	47151.036	7.254	-10.311	1.00	0.00	C
10	ATOM	655	OE1	GLU	A	47151.168	7.641	-11.491	1.00	0.00	O
	ATOM	656	OE2	GLU	A	47151.336	6.103	-9.930	1.00	0.00	O
	ATOM	657	H	GLU	A	47149.824	11.041	-8.052	1.00	0.00	H
	ATOM	658	HA	GLU	A	47147.445	9.813	-9.017	1.00	0.00	H
	ATOM	659	1HB	GLU	A	47148.543	7.455	-8.923	1.00	0.00	H
15	ATOM	660	2HB	GLU	A	47148.680	8.411	-10.392	1.00	0.00	H
	ATOM	661	1HG	GLU	A	47150.917	9.201	-9.474	1.00	0.00	H
	ATOM	662	2HG	GLU	A	47150.767	7.894	-8.303	1.00	0.00	H
	ATOM	663	N	VAL	A	48147.026	9.273	-6.644	1.00	0.00	N
	ATOM	664	CA	VAL	A	48146.758	8.977	-5.243	1.00	0.00	C
20	ATOM	665	C	VAL	A	48147.120	7.533	-4.918	1.00	0.00	C
	ATOM	666	O	VAL	A	48146.338	6.615	-5.169	1.00	0.00	O
	ATOM	667	CB	VAL	A	48145.279	9.219	-4.888	1.00	0.00	C
	ATOM	668	CG1	VAL	A	48145.066	9.114	-3.386	1.00	0.00	C
	ATOM	669	CG2	VAL	A	48144.820	10.574	-5.405	1.00	0.00	C
25	ATOM	670	H	VAL	A	48146.280	9.489	-7.241	1.00	0.00	H
	ATOM	671	HA	VAL	A	48147.366	9.636	-4.640	1.00	0.00	H
	ATOM	672	HB	VAL	A	48144.684	8.455	-5.368	1.00	0.00	H
	ATOM	673	1HG1	VAL	A	48145.014	8.072	-3.102	1.00	0.00	H
	ATOM	674	2HG1	VAL	A	48144.142	9.606	-3.117	1.00	0.00	H

	ATOM	675	3HG1	VAL	A	48145.889	9.587	-2.872	1.00	0.00	H
	ATOM	676	1HG2	VAL	A	48144.651	10.515	-6.470	1.00	0.00	H
	ATOM	677	2HG2	VAL	A	48145.580	11.314	-5.202	1.00	0.00	H
	ATOM	678	3HG2	VAL	A	48143.903	10.857	-4.910	1.00	0.00	H
5	ATOM	679	N	LEU	A	49148.309	7.339	-4.362	1.00	0.00	N
	ATOM	680	CA	LEU	A	49148.777	6.005	-4.005	1.00	0.00	C
	ATOM	681	C	LEU	A	49148.742	5.809	-2.496	1.00	0.00	C
	ATOM	682	O	LEU	A	49149.455	6.486	-1.756	1.00	0.00	O
	ATOM	683	CB	LEU	A	49150.197	5.781	-4.528	1.00	0.00	C
10	ATOM	684	CG	LEU	A	49150.343	5.837	-6.050	1.00	0.00	C
	ATOM	685	CD1	LEU	A	49151.745	6.281	-6.435	1.00	0.00	C
	ATOM	686	CD2	LEU	A	49150.022	4.483	-6.664	1.00	0.00	C
	ATOM	687	H	LEU	A	49148.888	8.110	-4.186	1.00	0.00	H
	ATOM	688	HA	LEU	A	49148.115	5.287	-4.466	1.00	0.00	H
15	ATOM	689	1HB	LEU	A	49150.840	6.535	-4.097	1.00	0.00	H
	ATOM	690	2HB	LEU	A	49150.532	4.812	-4.192	1.00	0.00	H
	ATOM	691	HG	LEU	A	49149.643	6.559	-6.446	1.00	0.00	H
	ATOM	692	1HD1	LEU	A	49151.964	7.230	-5.968	1.00	0.00	H
	ATOM	693	2HD1	LEU	A	49151.808	6.384	-7.507	1.00	0.00	H
20	ATOM	694	3HD1	LEU	A	49152.461	5.543	-6.102	1.00	0.00	H
	ATOM	695	1HD2	LEU	A	49149.950	4.582	-7.737	1.00	0.00	H
	ATOM	696	2HD2	LEU	A	49149.083	4.122	-6.272	1.00	0.00	H
	ATOM	697	3HD2	LEU	A	49150.807	3.782	-6.420	1.00	0.00	H
	ATOM	698	N	ALA	A	50147.908	4.880	-2.044	1.00	0.00	N
25	ATOM	699	CA	ALA	A	50147.783	4.602	-0.621	1.00	0.00	C
	ATOM	700	C	ALA	A	50148.733	3.488	-0.195	1.00	0.00	C
	ATOM	701	O	ALA	A	50148.596	2.343	-0.625	1.00	0.00	O
	ATOM	702	CB	ALA	A	50146.347	4.234	-0.280	1.00	0.00	C
	ATOM	703	H	ALA	A	50147.363	4.374	-2.682	1.00	0.00	H

	ATOM	704	HA	ALA A	50148.036	5.505	-0.086	1.00	0.00	H
	ATOM	705	1HB	ALA A	50146.227	3.162	-0.329	1.00	0.00	H
	ATOM	706	2HB	ALA A	50145.677	4.704	-0.985	1.00	0.00	H
	ATOM	707	3HB	ALA A	50146.115	4.577	0.718	1.00	0.00	H
5	ATOM	708	N	GLY A	51149.697	3.832	0.653	1.00	0.00	N
	ATOM	709	CA	GLY A	51150.656	2.850	1.123	1.00	0.00	C
	ATOM	710	C	GLY A	51150.023	1.805	2.019	1.00	0.00	C
	ATOM	711	O	GLY A	51149.665	2.092	3.162	1.00	0.00	O
	ATOM	712	H	GLY A	51149.757	4.759	0.962	1.00	0.00	H
10	ATOM	713	1HA	GLY A	51151.098	2.357	0.270	1.00	0.00	H
	ATOM	714	2HA	GLY A	51151.434	3.357	1.674	1.00	0.00	H
	ATOM	715	N	LEU A	52149.882	0.589	1.501	1.00	0.00	N
	ATOM	716	CA	LEU A	52149.286	-0.502	2.264	1.00	0.00	C
	ATOM	717	C	LEU A	52150.362	-1.350	2.933	1.00	0.00	C
15	ATOM	718	O	LEU A	52151.348	-1.734	2.303	1.00	0.00	O
	ATOM	719	CB	LEU A	52148.423	-1.376	1.353	1.00	0.00	C
	ATOM	720	CG	LEU A	52147.132	-0.721	0.860	1.00	0.00	C
	ATOM	721	CD1	LEU A	52146.434	-1.615	-0.154	1.00	0.00	C
	ATOM	722	CD2	LEU A	52146.209	-0.418	2.031	1.00	0.00	C
20	ATOM	723	H	LEU A	52150.186	0.422	0.585	1.00	0.00	H
	ATOM	724	HA	LEU A	52148.660	-0.067	3.029	1.00	0.00	H
	ATOM	725	1HB	LEU A	52149.014	-1.654	0.492	1.00	0.00	H
	ATOM	726	2HB	LEU A	52148.162	-2.274	1.893	1.00	0.00	H
	ATOM	727	HG	LEU A	52147.372	0.212	0.373	1.00	0.00	H
25	ATOM	728	1HD1	LEU A	52147.160	-2.260	-0.625	1.00	0.00	H
	ATOM	729	2HD1	LEU A	52145.957	-1.002	-0.905	1.00	0.00	H
	ATOM	730	3HD1	LEU A	52145.689	-2.215	0.348	1.00	0.00	H
	ATOM	731	1HD2	LEU A	52146.708	0.245	2.721	1.00	0.00	H
	ATOM	732	2HD2	LEU A	52145.955	-1.339	2.536	1.00	0.00	H

	ATOM	733	3HD2	LEU A	52145.308	0.053	1.666	1.00	0.00	H
	ATOM	734	N	GLU A	53150.166	-1.641	4.216	1.00	0.00	N
	ATOM	735	CA	GLU A	53151.119	-2.445	4.972	1.00	0.00	C
	ATOM	736	C	GLU A	53150.624	-3.880	5.117	1.00	0.00	C
5	ATOM	737	O	GLU A	53149.715	-4.158	5.899	1.00	0.00	O
	ATOM	738	CB	GLU A	53151.353	-1.830	6.353	1.00	0.00	C
	ATOM	739	CG	GLU A	53152.363	-2.593	7.195	1.00	0.00	C
	ATOM	740	CD	GLU A	53151.997	-2.614	8.666	1.00	0.00	C
	ATOM	741	OE1	GLU A	53152.380	-3.580	9.360	1.00	0.00	O
10	ATOM	742	OE2	GLU A	53151.327	-1.665	9.126	1.00	0.00	O
	ATOM	743	H	GLU A	53149.362	-1.306	4.663	1.00	0.00	H
	ATOM	744	HA	GLU A	53152.053	-2.451	4.428	1.00	0.00	H
	ATOM	745	1HB	GLU A	53151.710	-0.819	6.229	1.00	0.00	H
	ATOM	746	2HB	GLU A	53150.414	-1.808	6.887	1.00	0.00	H
15	ATOM	747	1HG	GLU A	53152.415	-3.610	6.838	1.00	0.00	H
	ATOM	748	2HG	GLU A	53153.330	-2.124	7.086	1.00	0.00	H
	ATOM	749	N	LEU A	54151.229	-4.789	4.359	1.00	0.00	N
	ATOM	750	CA	LEU A	54150.850	-6.196	4.403	1.00	0.00	C
	ATOM	751	C	LEU A	54151.179	-6.805	5.763	1.00	0.00	C
20	ATOM	752	O	LEU A	54152.268	-6.599	6.300	1.00	0.00	O
	ATOM	753	CB	LEU A	54151.564	-6.973	3.296	1.00	0.00	C
	ATOM	754	CG	LEU A	54151.397	-6.396	1.889	1.00	0.00	C
	ATOM	755	CD1	LEU A	54152.493	-6.907	0.968	1.00	0.00	C
	ATOM	756	CD2	LEU A	54150.025	-6.742	1.331	1.00	0.00	C
25	ATOM	757	H	LEU A	54151.948	-4.506	3.755	1.00	0.00	H
	ATOM	758	HA	LEU A	54149.784	-6.257	4.244	1.00	0.00	H
	ATOM	759	1HB	LEU A	54152.618	-7.003	3.529	1.00	0.00	H
	ATOM	760	2HB	LEU A	54151.183	-7.984	3.293	1.00	0.00	H
	ATOM	761	HG	LEU A	54151.478	-5.319	1.938	1.00	0.00	H

	ATOM	762	1HD1	LEU	A	54153.458	-6.635	1.372	1.00	0.00	H
	ATOM	763	2HD1	LEU	A	54152.376	-6.467	-0.011	1.00	0.00	H
	ATOM	764	3HD1	LEU	A	54152.426	-7.982	0.891	1.00	0.00	H
	ATOM	765	1HD2	LEU	A	54149.885	-7.812	1.357	1.00	0.00	H
5	ATOM	766	2HD2	LEU	A	54149.953	-6.394	0.312	1.00	0.00	H
	ATOM	767	3HD2	LEU	A	54149.262	-6.266	1.929	1.00	0.00	H
	ATOM	768	N	GLU	A	55150.231	-7.556	6.314	1.00	0.00	N
	ATOM	769	CA	GLU	A	55150.420	-8.196	7.610	1.00	0.00	C
	ATOM	770	C	GLU	A	55151.540	-9.230	7.551	1.00	0.00	C
10	ATOM	771	O	GLU	A	55152.232	-9.466	8.542	1.00	0.00	O
	ATOM	772	CB	GLU	A	55149.120	-8.861	8.068	1.00	0.00	C
	ATOM	773	CG	GLU	A	55148.144	-7.900	8.725	1.00	0.00	C
	ATOM	774	CD	GLU	A	55148.143	-8.013	10.237	1.00	0.00	C
	ATOM	775	OE1	GLU	A	55149.238	-7.979	10.837	1.00	0.00	O
15	ATOM	776	OE2	GLU	A	55147.046	-8.137	10.823	1.00	0.00	O
	ATOM	777	H	GLU	A	55149.385	-7.684	5.837	1.00	0.00	H
	ATOM	778	HA	GLU	A	55150.690	-7.429	8.321	1.00	0.00	H
	ATOM	779	1HB	GLU	A	55148.635	-9.303	7.210	1.00	0.00	H
	ATOM	780	2HB	GLU	A	55149.358	-9.639	8.778	1.00	0.00	H
20	ATOM	781	1HG	GLU	A	55148.415	-6.890	8.457	1.00	0.00	H
	ATOM	782	2HG	GLU	A	55147.148	-8.113	8.362	1.00	0.00	H
	ATOM	783	N	ASP	A	56151.713	-9.843	6.385	1.00	0.00	N
	ATOM	784	CA	ASP	A	56152.748	-10.852	6.199	1.00	0.00	C
	ATOM	785	C	ASP	A	56153.972	-10.256	5.509	1.00	0.00	C
25	ATOM	786	O	ASP	A	56153.857	-9.318	4.722	1.00	0.00	O
	ATOM	787	CB	ASP	A	56152.207	-12.024	5.379	1.00	0.00	C
	ATOM	788	CG	ASP	A	56152.759	-13.358	5.842	1.00	0.00	C
	ATOM	789	OD1	ASP	A	56152.112	-14.007	6.689	1.00	0.00	O
	ATOM	790	OD2	ASP	A	56153.839	-13.754	5.355	1.00	0.00	O

	ATOM	791	H	ASP	A	56151.130	-9.612	5.632	1.00	0.00	H
	ATOM	792	HA	ASP	A	56153.040	-11.212	7.174	1.00	0.00	H
	ATOM	793	1HB	ASP	A	56151.131	-12.052	5.468	1.00	0.00	H
	ATOM	794	2HB	ASP	A	56152.474	-11.884	4.341	1.00	0.00	H
5	ATOM	795	N	GLU	A	57155.142	-10.810	5.811	1.00	0.00	N
	ATOM	796	CA	GLU	A	57156.387	-10.334	5.219	1.00	0.00	C
	ATOM	797	C	GLU	A	57156.650	-11.019	3.882	1.00	0.00	C
	ATOM	798	O	GLU	A	57156.986	-12.203	3.836	1.00	0.00	O
	ATOM	799	CB	GLU	A	57157.558	-10.584	6.172	1.00	0.00	C
10	ATOM	800	CG	GLU	A	57157.490	-9.760	7.448	1.00	0.00	C
	ATOM	801	CD	GLU	A	57158.429	-10.272	8.522	1.00	0.00	C
	ATOM	802	OE1	GLU	A	57159.608	-10.536	8.205	1.00	0.00	O
	ATOM	803	OE2	GLU	A	57157.985	-10.409	9.682	1.00	0.00	O
	ATOM	804	H	GLU	A	57155.169	-11.556	6.445	1.00	0.00	H
15	ATOM	805	HA	GLU	A	57156.291	-9.272	5.053	1.00	0.00	H
	ATOM	806	1HB	GLU	A	57157.567	-11.629	6.445	1.00	0.00	H
	ATOM	807	2HB	GLU	A	57158.480	-10.345	5.663	1.00	0.00	H
	ATOM	808	1HG	GLU	A	57157.756	-8.740	7.216	1.00	0.00	H
	ATOM	809	2HG	GLU	A	57156.480	-9.791	7.828	1.00	0.00	H
20	ATOM	810	N	CYS	A	58156.495	-10.269	2.797	1.00	0.00	N
	ATOM	811	CA	CYS	A	58156.716	-10.804	1.459	1.00	0.00	C
	ATOM	812	C	CYS	A	58157.997	-10.242	0.851	1.00	0.00	C
	ATOM	813	O	CYS	A	58158.317	-9.067	1.030	1.00	0.00	O
	ATOM	814	CB	CYS	A	58155.524	-10.482	0.554	1.00	0.00	C
25	ATOM	815	SG	CYS	A	58154.176	-11.683	0.653	1.00	0.00	S
	ATOM	816	H	CYS	A	58156.226	-9.331	2.898	1.00	0.00	H
	ATOM	817	HA	CYS	A	58156.812	-11.877	1.542	1.00	0.00	H
	ATOM	818	1HB	CYS	A	58155.125	-9.517	0.830	1.00	0.00	H
	ATOM	819	2HB	CYS	A	58155.861	-10.447	-0.472	1.00	0.00	H



	ATOM	820	HG	CYS A	58154.554	-12.533	0.888	1.00	0.00	H
	ATOM	821	N	ALA A	59158.726	-11.089	0.133	1.00	0.00	N
	ATOM	822	CA	ALA A	59159.972	-10.677	-0.502	1.00	0.00	C
	ATOM	823	C	ALA A	59159.708	-9.725	-1.664	1.00	0.00	C
5	ATOM	824	O	ALA A	59159.129	-10.113	-2.678	1.00	0.00	O
	ATOM	825	CB	ALA A	59160.747	-11.895	-0.981	1.00	0.00	C
	ATOM	826	H	ALA A	59158.418	-12.014	0.026	1.00	0.00	H
	ATOM	827	HA	ALA A	59160.570	-10.168	0.239	1.00	0.00	H
	ATOM	828	1HB	ALA A	59161.352	-11.625	-1.834	1.00	0.00	H
10	ATOM	829	2HB	ALA A	59160.054	-12.674	-1.265	1.00	0.00	H
	ATOM	830	3HB	ALA A	59161.385	-12.252	-0.186	1.00	0.00	H
	ATOM	831	N	GLY A	60160.136	-8.476	-1.508	1.00	0.00	N
	ATOM	832	CA	GLY A	60159.937	-7.489	-2.551	1.00	0.00	C
	ATOM	833	C	GLY A	60159.402	-6.175	-2.012	1.00	0.00	C
15	ATOM	834	O	GLY A	60159.649	-5.115	-2.587	1.00	0.00	O
	ATOM	835	H	GLY A	60160.591	-8.225	-0.677	1.00	0.00	H
	ATOM	836	1HA	GLY A	60160.880	-7.305	-3.044	1.00	0.00	H
	ATOM	837	2HA	GLY A	60159.236	-7.880	-3.274	1.00	0.00	H
	ATOM	838	N	CYS A	61158.669	-6.247	-0.907	1.00	0.00	N
20	ATOM	839	CA	CYS A	61158.098	-5.055	-0.290	1.00	0.00	C
	ATOM	840	C	CYS A	61159.175	-4.242	0.422	1.00	0.00	C
	ATOM	841	O	CYS A	61160.259	-4.749	0.712	1.00	0.00	O
	ATOM	842	CB	CYS A	61156.999	-5.444	0.700	1.00	0.00	C
	ATOM	843	SG	CYS A	61155.806	-6.635	0.046	1.00	0.00	S
25	ATOM	844	H	CYS A	61158.508	-7.121	-0.495	1.00	0.00	H
	ATOM	845	HA	CYS A	61157.667	-4.450	-1.074	1.00	0.00	H
	ATOM	846	1HB	CYS A	61157.452	-5.882	1.576	1.00	0.00	H
	ATOM	847	2HB	CYS A	61156.453	-4.556	0.988	1.00	0.00	H
	ATOM	848	HG	CYS A	61156.257	-7.181	-0.602	1.00	0.00	H

	ATOM	849	N	THR	A	62158.869	-2.979	0.700	1.00	0.00	N
	ATOM	850	CA	THR	A	62159.811	-2.096	1.378	1.00	0.00	C
	ATOM	851	C	THR	A	62159.450	-1.944	2.852	1.00	0.00	C
	ATOM	852	O	THR	A	62158.508	-2.571	3.338	1.00	0.00	O
5	ATOM	853	CB	THR	A	62159.834	-0.725	0.702	1.00	0.00	C
	ATOM	854	OG1	THR	A	62158.569	-0.422	0.140	1.00	0.00	O
	ATOM	855	CG2	THR	A	62160.865	-0.617	-0.400	1.00	0.00	C
	ATOM	856	H	THR	A	62157.989	-2.632	0.443	1.00	0.00	H
	ATOM	857	HA	THR	A	62160.793	-2.540	1.305	1.00	0.00	H
10	ATOM	858	HB	THR	A	62160.063	0.027	1.444	1.00	0.00	H
	ATOM	859	HG1	THR	A	62158.577	0.476	-0.200	1.00	0.00	H
	ATOM	860	1HG2	THR	A	62161.107	0.422	-0.567	1.00	0.00	H
	ATOM	861	2HG2	THR	A	62160.466	-1.044	-1.309	1.00	0.00	H
	ATOM	862	3HG2	THR	A	62161.757	-1.153	-0.112	1.00	0.00	H
15	ATOM	863	N	ASP	A	63160.204	-1.108	3.557	1.00	0.00	N
	ATOM	864	CA	ASP	A	63159.963	-0.873	4.977	1.00	0.00	C
	ATOM	865	C	ASP	A	63159.263	0.463	5.197	1.00	0.00	C
	ATOM	866	O	ASP	A	63159.501	1.144	6.194	1.00	0.00	O
	ATOM	867	CB	ASP	A	63161.283	-0.905	5.752	1.00	0.00	C
20	ATOM	868	CG	ASP	A	63162.354	-0.050	5.104	1.00	0.00	C
	ATOM	869	OD1	ASP	A	63163.372	-0.615	4.652	1.00	0.00	O
	ATOM	870	OD2	ASP	A	63162.175	1.185	5.048	1.00	0.00	O
	ATOM	871	H	ASP	A	63160.940	-0.637	3.114	1.00	0.00	H
	ATOM	872	HA	ASP	A	63159.324	-1.665	5.339	1.00	0.00	H
25	ATOM	873	1HB	ASP	A	63161.114	-0.538	6.753	1.00	0.00	H
	ATOM	874	2HB	ASP	A	63161.640	-1.922	5.800	1.00	0.00	H
	ATOM	875	N	GLY	A	64158.398	0.833	4.258	1.00	0.00	N
	ATOM	876	CA	GLY	A	64157.676	2.087	4.367	1.00	0.00	C
	ATOM	877	C	GLY	A	64158.318	3.199	3.562	1.00	0.00	C

	ATOM	878	O	GLY A	64158.413	4.336	4.025	1.00	0.00	O
	ATOM	879	H	GLY A	64158.249	0.250	3.485	1.00	0.00	H
	ATOM	880	1HA	GLY A	64156.666	1.940	4.016	1.00	0.00	H
	ATOM	881	2HA	GLY A	64157.644	2.382	5.406	1.00	0.00	H
5	ATOM	882	N	THR A	65158.763	2.871	2.353	1.00	0.00	N
	ATOM	883	CA	THR A	65159.400	3.850	1.481	1.00	0.00	C
	ATOM	884	C	THR A	65159.035	3.600	0.022	1.00	0.00	C
	ATOM	885	O	THR A	65159.312	2.531	-0.524	1.00	0.00	O
	ATOM	886	CB	THR A	65160.919	3.805	1.652	1.00	0.00	C
10	ATOM	887	OG1	THR A	65161.395	2.473	1.559	1.00	0.00	O
	ATOM	888	CG2	THR A	65161.390	4.368	2.976	1.00	0.00	C
	ATOM	889	H	THR A	65158.659	1.948	2.040	1.00	0.00	H
	ATOM	890	HA	THR A	65159.044	4.829	1.766	1.00	0.00	H
	ATOM	891	HB	THR A	65161.377	4.385	0.865	1.00	0.00	H
15	ATOM	892	HG1	THR A	65161.050	2.065	0.762	1.00	0.00	H
	ATOM	893	1HG2	THR A	65160.959	5.348	3.123	1.00	0.00	H
	ATOM	894	2HG2	THR A	65162.466	4.445	2.972	1.00	0.00	H
	ATOM	895	3HG2	THR A	65161.078	3.714	3.777	1.00	0.00	H
	ATOM	896	N	PHE A	66158.411	4.591	-0.606	1.00	0.00	N
20	ATOM	897	CA	PHE A	66158.008	4.479	-2.003	1.00	0.00	C
	ATOM	898	C	PHE A	66159.094	5.022	-2.927	1.00	0.00	C
	ATOM	899	O	PHE A	66159.201	6.230	-3.130	1.00	0.00	O
	ATOM	900	CB	PHE A	66156.697	5.230	-2.241	1.00	0.00	C
	ATOM	901	CG	PHE A	66156.012	4.848	-3.522	1.00	0.00	C
25	ATOM	902	CD1	PHE A	66155.529	5.822	-4.381	1.00	0.00	C
	ATOM	903	CD2	PHE A	66155.849	3.516	-3.865	1.00	0.00	C
	ATOM	904	CE1	PHE A	66154.899	5.474	-5.560	1.00	0.00	C
	ATOM	905	CE2	PHE A	66155.218	3.161	-5.042	1.00	0.00	C
	ATOM	906	CZ	PHE A	66154.742	4.141	-5.892	1.00	0.00	C

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	ATOM	907	H	PHE A	66158.218	5.419	-0.118	1.00	0.00	H
	ATOM	908	HA	PHE A	66157.857	3.432	-2.220	1.00	0.00	H
	ATOM	909	1HB	PHE A	66156.019	5.023	-1.427	1.00	0.00	H
	ATOM	910	2HB	PHE A	66156.900	6.290	-2.274	1.00	0.00	H
5	ATOM	911	HD1	PHE A	66155.652	6.864	-4.124	1.00	0.00	H
	ATOM	912	HD2	PHE A	66156.220	2.748	-3.202	1.00	0.00	H
	ATOM	913	HE1	PHE A	66154.528	6.242	-6.223	1.00	0.00	H
	ATOM	914	HE2	PHE A	66155.098	2.119	-5.299	1.00	0.00	H
	ATOM	915	HZ	PHE A	66154.250	3.867	-6.812	1.00	0.00	H
10	ATOM	916	N	ARG A	67159.896	4.119	-3.483	1.00	0.00	N
	ATOM	917	CA	ARG A	67160.973	4.509	-4.386	1.00	0.00	C
	ATOM	918	C	ARG A	67161.960	5.438	-3.686	1.00	0.00	C
	ATOM	919	O	ARG A	67162.592	6.281	-4.322	1.00	0.00	O
	ATOM	920	CB	ARG A	67160.404	5.194	-5.629	1.00	0.00	C
15	ATOM	921	CG	ARG A	67159.247	4.438	-6.263	1.00	0.00	C
	ATOM	922	CD	ARG A	67158.335	5.371	-7.047	1.00	0.00	C
	ATOM	923	NE	ARG A	67158.608	5.327	-8.481	1.00	0.00	N
	ATOM	924	CZ	ARG A	67158.258	4.314	-9.271	1.00	0.00	C
	ATOM	925	NH1	ARG A	67157.622	3.261	-8.771	1.00	0.00	N
20	ATOM	926	NH2	ARG A	67158.544	4.354	-10.566	1.00	0.00	N
	ATOM	927	H	ARG A	67159.759	3.170	-3.282	1.00	0.00	H
	ATOM	928	HA	ARG A	67161.493	3.612	-4.686	1.00	0.00	H
	ATOM	929	1HB	ARG A	67160.055	6.179	-5.355	1.00	0.00	H
	ATOM	930	2HB	ARG A	67161.188	5.290	-6.365	1.00	0.00	H
25	ATOM	931	1HG	ARG A	67159.642	3.691	-6.935	1.00	0.00	H
	ATOM	932	2HG	ARG A	67158.673	3.959	-5.484	1.00	0.00	H
	ATOM	933	1HD	ARG A	67157.310	5.077	-6.876	1.00	0.00	H
	ATOM	934	2HD	ARG A	67158.483	6.380	-6.691	1.00	0.00	H
	ATOM	935	HE	ARG A	67159.077	6.091	-8.876	1.00	0.00	H

	ATOM	936	1HH1	ARG	A	67157.403	3.225	-7.795	1.00	0.00	H
	ATOM	937	2HH1	ARG	A	67157.361	2.504	-9.370	1.00	0.00	H
	ATOM	938	1HH2	ARG	A	67159.022	5.145	-10.947	1.00	0.00	H
	ATOM	939	2HH2	ARG	A	67158.282	3.594	-11.159	1.00	0.00	H
5	ATOM	940	N	GLY	A	68162.086	5.279	-2.372	1.00	0.00	N
	ATOM	941	CA	GLY	A	68162.998	6.111	-1.610	1.00	0.00	C
	ATOM	942	C	GLY	A	68162.279	7.180	-0.808	1.00	0.00	C
	ATOM	943	O	GLY	A	68162.795	7.658	0.202	1.00	0.00	O
	ATOM	944	H	GLY	A	68161.558	4.591	-1.917	1.00	0.00	H
10	ATOM	945	1HA	GLY	A	68163.558	5.485	-0.931	1.00	0.00	H
	ATOM	946	2HA	GLY	A	68163.686	6.590	-2.291	1.00	0.00	H
	ATOM	947	N	THR	A	69161.086	7.556	-1.260	1.00	0.00	N
	ATOM	948	CA	THR	A	69160.299	8.575	-0.576	1.00	0.00	C
	ATOM	949	C	THR	A	69159.624	8.002	0.666	1.00	0.00	C
15	ATOM	950	O	THR	A	69158.538	7.428	0.585	1.00	0.00	O
	ATOM	951	CB	THR	A	69159.245	9.152	-1.523	1.00	0.00	C
	ATOM	952	OG1	THR	A	69159.760	9.271	-2.836	1.00	0.00	O
	ATOM	953	CG2	THR	A	69158.746	10.518	-1.101	1.00	0.00	C
	ATOM	954	H	THR	A	69160.728	7.138	-2.070	1.00	0.00	H
20	ATOM	955	HA	THR	A	69160.969	9.365	-0.275	1.00	0.00	H
	ATOM	956	HB	THR	A	69158.396	8.484	-1.549	1.00	0.00	H
	ATOM	957	HG1	THR	A	69159.603	8.454	-3.317	1.00	0.00	H
	ATOM	958	1HG2	THR	A	69157.684	10.586	-1.285	1.00	0.00	H
	ATOM	959	2HG2	THR	A	69159.259	11.280	-1.670	1.00	0.00	H
25	ATOM	960	3HG2	THR	A	69158.939	10.663	-0.048	1.00	0.00	H
	ATOM	961	N	ARG	A	70160.275	8.161	1.813	1.00	0.00	N
	ATOM	962	CA	ARG	A	70159.738	7.659	3.073	1.00	0.00	C
	ATOM	963	C	ARG	A	70158.513	8.463	3.499	1.00	0.00	C
	ATOM	964	O	ARG	A	70158.554	9.692	3.554	1.00	0.00	O

	ATOM	965	CB	ARG A	70160.806	7.716	4.166	1.00	0.00	C
	ATOM	966	CG	ARG A	70160.332	7.181	5.508	1.00	0.00	C
	ATOM	967	CD	ARG A	70160.920	7.975	6.663	1.00	0.00	C
	ATOM	968	NE	ARG A	70162.233	7.472	7.062	1.00	0.00	N
5	ATOM	969	CZ	ARG A	70163.084	8.150	7.828	1.00	0.00	C
	ATOM	970	NH1	ARG A	70162.766	9.356	8.281	1.00	0.00	N
	ATOM	971	NH2	ARG A	70164.258	7.619	8.143	1.00	0.00	N
	ATOM	972	H	ARG A	70161.137	8.627	1.813	1.00	0.00	H
	ATOM	973	HA	ARG A	70159.444	6.631	2.921	1.00	0.00	H
10	ATOM	974	1HB	ARG A	70161.659	7.134	3.851	1.00	0.00	H
	ATOM	975	2HB	ARG A	70161.112	8.743	4.300	1.00	0.00	H
	ATOM	976	1HG	ARG A	70159.255	7.245	5.551	1.00	0.00	H
	ATOM	977	2HG	ARG A	70160.636	6.149	5.600	1.00	0.00	H
	ATOM	978	1HD	ARG A	70161.017	9.007	6.361	1.00	0.00	H
15	ATOM	979	2HD	ARG A	70160.248	7.909	7.506	1.00	0.00	H
	ATOM	980	HE	ARG A	70162.494	6.584	6.741	1.00	0.00	H
	ATOM	981	1HH1	ARG A	70161.882	9.762	8.048	1.00	0.00	H
	ATOM	982	2HH1	ARG A	70163.409	9.859	8.857	1.00	0.00	H
	ATOM	983	1HH2	ARG A	70164.503	6.711	7.805	1.00	0.00	H
20	ATOM	984	2HH2	ARG A	70164.898	8.127	8.720	1.00	0.00	H
	ATOM	985	N	TYR A	71157.426	7.760	3.799	1.00	0.00	N
	ATOM	986	CA	TYR A	71156.189	8.408	4.220	1.00	0.00	C
	ATOM	987	C	TYR A	71155.841	8.032	5.657	1.00	0.00	C
	ATOM	988	O	TYR A	71155.425	8.880	6.447	1.00	0.00	O
25	ATOM	989	CB	TYR A	71155.042	8.019	3.287	1.00	0.00	C
	ATOM	990	CG	TYR A	71155.198	8.551	1.879	1.00	0.00	C
	ATOM	991	CD1	TYR A	71155.353	7.686	0.804	1.00	0.00	C
	ATOM	992	CD2	TYR A	71155.192	9.917	1.628	1.00	0.00	C
	ATOM	993	CE1	TYR A	71155.496	8.168	-0.485	1.00	0.00	C

	ATOM	994	CE2	TYR	A	71155.334	10.406	0.343	1.00	0.00	C
	ATOM	995	CZ	TYR	A	71155.486	9.528	-0.709	1.00	0.00	C
	ATOM	996	OH	TYR	A	71155.628	10.012	-1.989	1.00	0.00	O
	ATOM	997	H	TYR	A	71157.456	6.783	3.735	1.00	0.00	H
5	ATOM	998	HA	TYR	A	71156.339	9.476	4.167	1.00	0.00	H
	ATOM	999	1HB	TYR	A	71154.983	6.943	3.229	1.00	0.00	H
	ATOM	1000	2HB	TYR	A	71154.116	8.405	3.687	1.00	0.00	H
	ATOM	1001	HD1	TYR	A	71155.360	6.621	0.982	1.00	0.00	H
	ATOM	1002	HD2	TYR	A	71155.073	10.603	2.454	1.00	0.00	H
10	ATOM	1003	HE1	TYR	A	71155.615	7.480	-1.308	1.00	0.00	H
	ATOM	1004	HE2	TYR	A	71155.326	11.472	0.168	1.00	0.00	H
	ATOM	1005	HH	TYR	A	71154.788	10.360	-2.295	1.00	0.00	H
	ATOM	1006	N	PHE	A	72156.013	6.757	5.987	1.00	0.00	N
	ATOM	1007	CA	PHE	A	72155.716	6.268	7.329	1.00	0.00	C
15	ATOM	1008	C	PHE	A	72156.781	5.282	7.797	1.00	0.00	C
	ATOM	1009	O	PHE	A	72157.740	5.001	7.079	1.00	0.00	O
	ATOM	1010	CB	PHE	A	72154.339	5.603	7.358	1.00	0.00	C
	ATOM	1011	CG	PHE	A	72154.122	4.623	6.241	1.00	0.00	C
	ATOM	1012	CD1	PHE	A	72154.270	3.261	6.457	1.00	0.00	C
20	ATOM	1013	CD2	PHE	A	72153.771	5.062	4.974	1.00	0.00	C
	ATOM	1014	CE1	PHE	A	72154.071	2.357	5.431	1.00	0.00	C
	ATOM	1015	CE2	PHE	A	72153.570	4.163	3.944	1.00	0.00	C
	ATOM	1016	CZ	PHE	A	72153.720	2.809	4.173	1.00	0.00	C
	ATOM	1017	H	PHE	A	72156.346	6.129	5.313	1.00	0.00	H
25	ATOM	1018	HA	PHE	A	72155.710	7.117	7.997	1.00	0.00	H
	ATOM	1019	1HB	PHE	A	72154.223	5.072	8.291	1.00	0.00	H
	ATOM	1020	2HB	PHE	A	72153.578	6.365	7.285	1.00	0.00	H
	ATOM	1021	HD1	PHE	A	72154.543	2.908	7.440	1.00	0.00	H
	ATOM	1022	HD2	PHE	A	72153.653	6.120	4.795	1.00	0.00	H

	ATOM	1023	HE1	PHE	A	72154.190	1.300	5.612	1.00	0.00	H
	ATOM	1024	HE2	PHE	A	72153.297	4.519	2.962	1.00	0.00	H
	ATOM	1025	HZ	PHE	A	72153.564	2.104	3.370	1.00	0.00	H
	ATOM	1026	N	THR	A	73156.605	4.760	9.007	1.00	0.00	N
5	ATOM	1027	CA	THR	A	73157.551	3.805	9.573	1.00	0.00	C
	ATOM	1028	C	THR	A	73156.871	2.469	9.856	1.00	0.00	C
	ATOM	1029	O	THR	A	73156.113	2.338	10.817	1.00	0.00	O
	ATOM	1030	CB	THR	A	73158.162	4.361	10.860	1.00	0.00	C
	ATOM	1031	OG1	THR	A	73157.244	5.211	11.525	1.00	0.00	O
10	ATOM	1032	CG2	THR	A	73159.432	5.152	10.626	1.00	0.00	C
	ATOM	1033	H	THR	A	73155.821	5.023	9.533	1.00	0.00	H
	ATOM	1034	HA	THR	A	73158.337	3.648	8.850	1.00	0.00	H
	ATOM	1035	HB	THR	A	73158.401	3.539	11.518	1.00	0.00	H
	ATOM	1036	HG1	THR	A	73156.707	4.692	12.128	1.00	0.00	H
15	ATOM	1037	1HG2	THR	A	73159.457	5.998	11.296	1.00	0.00	H
	ATOM	1038	2HG2	THR	A	73159.456	5.500	9.604	1.00	0.00	H
	ATOM	1039	3HG2	THR	A	73160.288	4.521	10.812	1.00	0.00	H
	ATOM	1040	N	CYS	A	74157.149	1.479	9.013	1.00	0.00	N
	ATOM	1041	CA	CYS	A	74156.565	0.153	9.173	1.00	0.00	C
20	ATOM	1042	C	CYS	A	74157.648	-0.922	9.171	1.00	0.00	C
	ATOM	1043	O	CYS	A	74158.817	-0.639	8.913	1.00	0.00	O
	ATOM	1044	CB	CYS	A	74155.556	-0.121	8.056	1.00	0.00	C
	ATOM	1045	SG	CYS	A	74153.872	0.415	8.436	1.00	0.00	S
	ATOM	1046	H	CYS	A	74157.762	1.645	8.266	1.00	0.00	H
25	ATOM	1047	HA	CYS	A	74156.052	0.128	10.122	1.00	0.00	H
	ATOM	1048	1HB	CYS	A	74155.871	0.396	7.162	1.00	0.00	H
	ATOM	1049	2HB	CYS	A	74155.527	-1.183	7.860	1.00	0.00	H
	ATOM	1050	HG	CYS	A	74153.370	-0.356	8.709	1.00	0.00	H
	ATOM	1051	N	ALA	A	75157.249	-2.157	9.460	1.00	0.00	N



	ATOM	1052	CA	ALA A	75158.185	-3.274	9.491	1.00	0.00	C
	ATOM	1053	C	ALA A	75158.860	-3.461	8.137	1.00	0.00	C
	ATOM	1054	O	ALA A	75158.563	-2.747	7.180	1.00	0.00	O
	ATOM	1055	CB	ALA A	75157.469	-4.549	9.908	1.00	0.00	C
5	ATOM	1056	H	ALA A	75156.303	-2.320	9.657	1.00	0.00	H
	ATOM	1057	HA	ALA A	75158.940	-3.054	10.232	1.00	0.00	H
	ATOM	1058	1HB	ALA A	75156.425	-4.479	9.643	1.00	0.00	H
	ATOM	1059	2HB	ALA A	75157.562	-4.681	10.976	1.00	0.00	H
	ATOM	1060	3HB	ALA A	75157.913	-5.393	9.401	1.00	0.00	H
10	ATOM	1061	N	LEU A	76159.770	-4.427	8.064	1.00	0.00	N
	ATOM	1062	CA	LEU A	76160.488	-4.709	6.827	1.00	0.00	C
	ATOM	1063	C	LEU A	76159.705	-5.684	5.953	1.00	0.00	C
	ATOM	1064	O	LEU A	76159.141	-6.660	6.447	1.00	0.00	O
	ATOM	1065	CB	LEU A	76161.873	-5.281	7.135	1.00	0.00	C
15	ATOM	1066	CG	LEU A	76162.966	-4.238	7.375	1.00	0.00	C
	ATOM	1067	CD1	LEU A	76164.095	-4.830	8.205	1.00	0.00	C
	ATOM	1068	CD2	LEU A	76163.495	-3.708	6.051	1.00	0.00	C
	ATOM	1069	H	LEU A	76159.964	-4.963	8.862	1.00	0.00	H
	ATOM	1070	HA	LEU A	76160.604	-3.778	6.292	1.00	0.00	H
20	ATOM	1071	1HB	LEU A	76161.795	-5.901	8.016	1.00	0.00	H
	ATOM	1072	2HB	LEU A	76162.176	-5.901	6.305	1.00	0.00	H
	ATOM	1073	HG	LEU A	76162.547	-3.408	7.926	1.00	0.00	H
	ATOM	1074	1HD1	LEU A	76164.504	-4.068	8.851	1.00	0.00	H
	ATOM	1075	2HD1	LEU A	76164.869	-5.199	7.548	1.00	0.00	H
25	ATOM	1076	3HD1	LEU A	76163.713	-5.643	8.803	1.00	0.00	H
	ATOM	1077	1HD2	LEU A	76163.973	-2.752	6.212	1.00	0.00	H
	ATOM	1078	2HD2	LEU A	76162.676	-3.589	5.357	1.00	0.00	H
	ATOM	1079	3HD2	LEU A	76164.213	-4.406	5.645	1.00	0.00	H
	ATOM	1080	N	LYS A	77159.676	-5.413	4.652	1.00	0.00	N

	ATOM	1081	CA	LYS A	77158.962	-6.266	3.709	1.00	0.00	C
	ATOM	1082	C	LYS A	77157.473	-6.313	4.036	1.00	0.00	C
	ATOM	1083	O	LYS A	77156.840	-7.365	3.949	1.00	0.00	O
	ATOM	1084	CB	LYS A	77159.546	-7.681	3.727	1.00	0.00	C
5	ATOM	1085	CG	LYS A	77161.022	-7.735	3.366	1.00	0.00	C
	ATOM	1086	CD	LYS A	77161.222	-7.948	1.874	1.00	0.00	C
	ATOM	1087	CE	LYS A	77162.466	-7.232	1.372	1.00	0.00	C
	ATOM	1088	NZ	LYS A	77163.176	-8.018	0.325	1.00	0.00	N
	ATOM	1089	H	LYS A	77160.145	-4.620	4.319	1.00	0.00	H
10	ATOM	1090	HA	LYS A	77159.089	-5.848	2.722	1.00	0.00	H
	ATOM	1091	1HB	LYS A	77159.425	-8.095	4.717	1.00	0.00	H
	ATOM	1092	2HB	LYS A	77159.002	-8.292	3.022	1.00	0.00	H
	ATOM	1093	1HG	LYS A	77161.487	-6.804	3.653	1.00	0.00	H
	ATOM	1094	2HG	LYS A	77161.484	-8.552	3.902	1.00	0.00	H
15	ATOM	1095	1HD	LYS A	77161.325	-9.005	1.681	1.00	0.00	H
	ATOM	1096	2HD	LYS A	77160.360	-7.566	1.347	1.00	0.00	H
	ATOM	1097	1HE	LYS A	77162.174	-6.278	0.956	1.00	0.00	H
	ATOM	1098	2HE	LYS A	77163.133	-7.070	2.205	1.00	0.00	H
	ATOM	1099	1HZ	LYS A	77162.881	-7.702	-0.620	1.00	0.00	H
20	ATOM	1100	2HZ	LYS A	77162.953	-9.029	0.426	1.00	0.00	H
	ATOM	1101	3HZ	LYS A	77164.204	-7.890	0.418	1.00	0.00	H
	ATOM	1102	N	LYS A	78156.919	-5.165	4.412	1.00	0.00	N
	ATOM	1103	CA	LYS A	78155.503	-5.075	4.751	1.00	0.00	C
	ATOM	1104	C	LYS A	78154.937	-3.711	4.366	1.00	0.00	C
25	ATOM	1105	O	LYS A	78154.084	-3.163	5.064	1.00	0.00	O
	ATOM	1106	CB	LYS A	78155.299	-5.322	6.246	1.00	0.00	C
	ATOM	1107	CG	LYS A	78155.835	-6.663	6.719	1.00	0.00	C
	ATOM	1108	CD	LYS A	78155.588	-6.870	8.205	1.00	0.00	C
	ATOM	1109	CE	LYS A	78154.371	-7.748	8.450	1.00	0.00	C

	ATOM	1110	NZ	LYS A	78153.592	-7.299	9.636	1.00	0.00	N
	ATOM	1111	H	LYS A	78157.475	-4.359	4.462	1.00	0.00	H
	ATOM	1112	HA	LYS A	78154.980	-5.838	4.193	1.00	0.00	H
	ATOM	1113	1HB	LYS A	78155.801	-4.543	6.800	1.00	0.00	H
5	ATOM	1114	2HB	LYS A	78154.242	-5.284	6.464	1.00	0.00	H
	ATOM	1115	1HG	LYS A	78155.342	-7.451	6.169	1.00	0.00	H
	ATOM	1116	2HG	LYS A	78156.898	-6.702	6.531	1.00	0.00	H
	ATOM	1117	1HD	LYS A	78156.454	-7.342	8.641	1.00	0.00	H
	ATOM	1118	2HD	LYS A	78155.426	-5.908	8.669	1.00	0.00	H
10	ATOM	1119	1HE	LYS A	78153.736	-7.712	7.578	1.00	0.00	H
	ATOM	1120	2HE	LYS A	78154.703	-8.764	8.611	1.00	0.00	H
	ATOM	1121	1HZ	LYS A	78154.204	-6.763	10.284	1.00	0.00	H
	ATOM	1122	2HZ	LYS A	78153.207	-8.121	10.144	1.00	0.00	H
	ATOM	1123	3HZ	LYS A	78152.803	-6.691	9.336	1.00	0.00	H
15	ATOM	1124	N	ALA A	79155.417	-3.170	3.252	1.00	0.00	N
	ATOM	1125	CA	ALA A	79154.959	-1.871	2.774	1.00	0.00	C
	ATOM	1126	C	ALA A	79154.768	-1.878	1.261	1.00	0.00	C
	ATOM	1127	O	ALA A	79155.729	-1.743	0.504	1.00	0.00	O
	ATOM	1128	CB	ALA A	79155.942	-0.784	3.179	1.00	0.00	C
20	ATOM	1129	H	ALA A	79156.096	-3.655	2.738	1.00	0.00	H
	ATOM	1130	HA	ALA A	79154.010	-1.659	3.246	1.00	0.00	H
	ATOM	1131	1HB	ALA A	79155.400	0.113	3.442	1.00	0.00	H
	ATOM	1132	2HB	ALA A	79156.607	-0.573	2.354	1.00	0.00	H
	ATOM	1133	3HB	ALA A	79156.519	-1.117	4.028	1.00	0.00	H
25	ATOM	1134	N	LEU A	80153.522	-2.038	0.829	1.00	0.00	N
	ATOM	1135	CA	LEU A	80153.204	-2.063	-0.595	1.00	0.00	C
	ATOM	1136	C	LEU A	80152.375	-0.846	-0.989	1.00	0.00	C
	ATOM	1137	O	LEU A	80151.319	-0.587	-0.410	1.00	0.00	O
	ATOM	1138	CB	LEU A	80152.448	-3.345	-0.947	1.00	0.00	C

	ATOM	1139	CG	LEU A	80152.015	-3.461	-2.409	1.00	0.00	C
	ATOM	1140	CD1	LEU A	80153.127	-4.072	-3.247	1.00	0.00	C
	ATOM	1141	CD2	LEU A	80150.742	-4.287	-2.524	1.00	0.00	C
	ATOM	1142	H	LEU A	80152.798	-2.140	1.481	1.00	0.00	H
5	ATOM	1143	HA	LEU A	80154.135	-2.042	-1.143	1.00	0.00	H
	ATOM	1144	1HB	LEU A	80153.083	-4.188	-0.712	1.00	0.00	H
	ATOM	1145	2HB	LEU A	80151.565	-3.399	-0.328	1.00	0.00	H
	ATOM	1146	HG	LEU A	80151.811	-2.473	-2.795	1.00	0.00	H
	ATOM	1147	1HD1	LEU A	80153.127	-3.621	-4.229	1.00	0.00	H
10	ATOM	1148	2HD1	LEU A	80152.964	-5.136	-3.340	1.00	0.00	H
	ATOM	1149	3HD1	LEU A	80154.078	-3.894	-2.769	1.00	0.00	H
	ATOM	1150	1HD2	LEU A	80150.387	-4.261	-3.543	1.00	0.00	H
	ATOM	1151	2HD2	LEU A	80149.988	-3.878	-1.868	1.00	0.00	H
	ATOM	1152	3HD2	LEU A	80150.950	-5.308	-2.240	1.00	0.00	H
15	ATOM	1153	N	PHE A	81152.859	-0.100	-1.976	1.00	0.00	N
	ATOM	1154	CA	PHE A	81152.162	1.091	-2.449	1.00	0.00	C
	ATOM	1155	C	PHE A	81151.323	0.776	-3.683	1.00	0.00	C
	ATOM	1156	O	PHE A	81151.796	0.136	-4.621	1.00	0.00	O
	ATOM	1157	CB	PHE A	81153.164	2.201	-2.768	1.00	0.00	C
20	ATOM	1158	CG	PHE A	81153.781	2.823	-1.548	1.00	0.00	C
	ATOM	1159	CD1	PHE A	81154.882	2.242	-0.940	1.00	0.00	C
	ATOM	1160	CD2	PHE A	81153.260	3.988	-1.009	1.00	0.00	C
	ATOM	1161	CE1	PHE A	81155.453	2.812	0.182	1.00	0.00	C
	ATOM	1162	CE2	PHE A	81153.826	4.563	0.113	1.00	0.00	C
25	ATOM	1163	CZ	PHE A	81154.924	3.973	0.710	1.00	0.00	C
	ATOM	1164	H	PHE A	81153.705	-0.357	-2.399	1.00	0.00	H
	ATOM	1165	HA	PHE A	81151.507	1.426	-1.658	1.00	0.00	H
	ATOM	1166	1HB	PHE A	81153.961	1.794	-3.372	1.00	0.00	H
	ATOM	1167	2HB	PHE A	81152.662	2.981	-3.323	1.00	0.00	H

	ATOM	1168	HD1	PHE	A	81155.297	1.334	-1.352	1.00	0.00	H
	ATOM	1169	HD2	PHE	A	81152.401	4.449	-1.475	1.00	0.00	H
	ATOM	1170	HE1	PHE	A	81156.311	2.349	0.646	1.00	0.00	H
	ATOM	1171	HE2	PHE	A	81153.410	5.471	0.523	1.00	0.00	H
5	ATOM	1172	HZ	PHE	A	81155.368	4.421	1.586	1.00	0.00	H
	ATOM	1173	N	VAL	A	82150.074	1.230	-3.674	1.00	0.00	N
	ATOM	1174	CA	VAL	A	82149.168	0.997	-4.793	1.00	0.00	C
	ATOM	1175	C	VAL	A	82148.207	2.167	-4.975	1.00	0.00	C
	ATOM	1176	O	VAL	A	82148.090	3.029	-4.105	1.00	0.00	O
10	ATOM	1177	CB	VAL	A	82148.354	-0.295	-4.597	1.00	0.00	C
	ATOM	1178	CG1	VAL	A	82149.264	-1.512	-4.631	1.00	0.00	C
	ATOM	1179	CG2	VAL	A	82147.570	-0.241	-3.294	1.00	0.00	C
	ATOM	1180	H	VAL	A	82149.753	1.734	-2.896	1.00	0.00	H
	ATOM	1181	HA	VAL	A	82149.764	0.890	-5.687	1.00	0.00	H
15	ATOM	1182	HB	VAL	A	82147.648	-0.379	-5.412	1.00	0.00	H
	ATOM	1183	1HG1	VAL	A	82150.134	-1.294	-5.233	1.00	0.00	H
	ATOM	1184	2HG1	VAL	A	82148.732	-2.349	-5.058	1.00	0.00	H
	ATOM	1185	3HG1	VAL	A	82149.574	-1.758	-3.626	1.00	0.00	H
	ATOM	1186	1HG2	VAL	A	82147.581	-1.214	-2.825	1.00	0.00	H
20	ATOM	1187	2HG2	VAL	A	82146.551	0.050	-3.498	1.00	0.00	H
	ATOM	1188	3HG2	VAL	A	82148.025	0.482	-2.631	1.00	0.00	H
	ATOM	1189	N	LYS	A	83147.522	2.190	-6.114	1.00	0.00	N
	ATOM	1190	CA	LYS	A	83146.571	3.255	-6.413	1.00	0.00	C
	ATOM	1191	C	LYS	A	83145.380	3.204	-5.464	1.00	0.00	C
25	ATOM	1192	O	LYS	A	83144.707	2.180	-5.348	1.00	0.00	O
	ATOM	1193	CB	LYS	A	83146.091	3.145	-7.860	1.00	0.00	C
	ATOM	1194	CG	LYS	A	83147.213	3.230	-8.882	1.00	0.00	C
	ATOM	1195	CD	LYS	A	83146.736	2.827	-10.268	1.00	0.00	C
	ATOM	1196	CE	LYS	A	83147.304	3.741	-11.341	1.00	0.00	C

	ATOM	1197	NZ	LYS A	83147.522	3.022	-12.627	1.00	0.00	N
	ATOM	1198	H	LYS A	83147.660	1.475	-6.769	1.00	0.00	H
	ATOM	1199	HA	LYS A	83147.079	4.199	-6.281	1.00	0.00	H
	ATOM	1200	1HB	LYS A	83145.586	2.200	-7.989	1.00	0.00	H
5	ATOM	1201	2HB	LYS A	83145.393	3.945	-8.058	1.00	0.00	H
	ATOM	1202	1HG	LYS A	83147.577	4.246	-8.918	1.00	0.00	H
	ATOM	1203	2HG	LYS A	83148.012	2.569	-8.579	1.00	0.00	H
	ATOM	1204	1HD	LYS A	83147.055	1.814	-10.467	1.00	0.00	H
	ATOM	1205	2HD	LYS A	83145.658	2.878	-10.297	1.00	0.00	H
10	ATOM	1206	1HE	LYS A	83146.613	4.554	-11.507	1.00	0.00	H
	ATOM	1207	2HE	LYS A	83148.247	4.137	-10.995	1.00	0.00	H
	ATOM	1208	1HZ	LYS A	83148.420	2.497	-12.595	1.00	0.00	H
	ATOM	1209	2HZ	LYS A	83147.557	3.699	-13.414	1.00	0.00	H
	ATOM	1210	3HZ	LYS A	83146.746	2.349	-12.796	1.00	0.00	H
15	ATOM	1211	N	LEU A	84145.125	4.318	-4.788	1.00	0.00	N
	ATOM	1212	CA	LEU A	84144.015	4.410	-3.849	1.00	0.00	C
	ATOM	1213	C	LEU A	84142.685	4.149	-4.549	1.00	0.00	C
	ATOM	1214	O	LEU A	84141.743	3.636	-3.944	1.00	0.00	O
	ATOM	1215	CB	LEU A	84143.997	5.791	-3.189	1.00	0.00	C
20	ATOM	1216	CG	LEU A	84142.811	6.051	-2.258	1.00	0.00	C
	ATOM	1217	CD1	LEU A	84142.917	5.194	-1.006	1.00	0.00	C
	ATOM	1218	CD2	LEU A	84142.737	7.526	-1.891	1.00	0.00	C
	ATOM	1219	H	LEU A	84145.698	5.101	-4.926	1.00	0.00	H
	ATOM	1220	HA	LEU A	84144.162	3.659	-3.087	1.00	0.00	H
25	ATOM	1221	1HB	LEU A	84144.908	5.907	-2.620	1.00	0.00	H
	ATOM	1222	2HB	LEU A	84143.984	6.537	-3.969	1.00	0.00	H
	ATOM	1223	HG	LEU A	84141.896	5.786	-2.767	1.00	0.00	H
	ATOM	1224	1HD1	LEU A	84143.435	5.745	-0.236	1.00	0.00	H
	ATOM	1225	2HD1	LEU A	84143.465	4.291	-1.234	1.00	0.00	H

	ATOM	1226	3HD1	LEU A	84141.927	4.936	-0.662	1.00	0.00	H
	ATOM	1227	1HD2	LEU A	84141.795	7.729	-1.404	1.00	0.00	H
	ATOM	1228	2HD2	LEU A	84142.815	8.124	-2.787	1.00	0.00	H
	ATOM	1229	3HD2	LEU A	84143.549	7.772	-1.222	1.00	0.00	H
5	ATOM	1230	N	LYS A	85142.616	4.505	-5.827	1.00	0.00	N
	ATOM	1231	CA	LYS A	85141.401	4.310	-6.611	1.00	0.00	C
	ATOM	1232	C	LYS A	85141.072	2.826	-6.754	1.00	0.00	C
	ATOM	1233	O	LYS A	85139.912	2.453	-6.932	1.00	0.00	O
	ATOM	1234	CB	LYS A	85141.555	4.944	-7.994	1.00	0.00	C
10	ATOM	1235	CG	LYS A	85142.656	4.315	-8.833	1.00	0.00	C
	ATOM	1236	CD	LYS A	85143.327	5.341	-9.732	1.00	0.00	C
	ATOM	1237	CE	LYS A	85142.637	5.432	-11.083	1.00	0.00	C
	ATOM	1238	NZ	LYS A	85141.191	5.755	-10.950	1.00	0.00	N
	ATOM	1239	H	LYS A	85143.400	4.910	-6.254	1.00	0.00	H
15	ATOM	1240	HA	LYS A	85140.590	4.797	-6.091	1.00	0.00	H
	ATOM	1241	1HB	LYS A	85140.622	4.844	-8.529	1.00	0.00	H
	ATOM	1242	2HB	LYS A	85141.779	5.994	-7.874	1.00	0.00	H
	ATOM	1243	1HG	LYS A	85143.397	3.888	-8.175	1.00	0.00	H
	ATOM	1244	2HG	LYS A	85142.226	3.537	-9.447	1.00	0.00	H
20	ATOM	1245	1HD	LYS A	85143.284	6.308	-9.252	1.00	0.00	H
	ATOM	1246	2HD	LYS A	85144.358	5.055	-9.881	1.00	0.00	H
	ATOM	1247	1HE	LYS A	85143.117	6.205	-11.666	1.00	0.00	H
	ATOM	1248	2HE	LYS A	85142.741	4.484	-11.590	1.00	0.00	H
	ATOM	1249	1HZ	LYS A	85140.781	5.957	-11.884	1.00	0.00	H
25	ATOM	1250	2HZ	LYS A	85141.065	6.590	-10.342	1.00	0.00	H
	ATOM	1251	3HZ	LYS A	85140.683	4.953	-10.526	1.00	0.00	H
	ATOM	1252	N	SER A	86142.098	1.984	-6.674	1.00	0.00	N
	ATOM	1253	CA	SER A	86141.913	0.542	-6.794	1.00	0.00	C
	ATOM	1254	C	SER A	86141.835	-0.115	-5.420	1.00	0.00	C

	ATOM	1255	O	SER A	86142.239	-1.265	-5.247	1.00	0.00	O
	ATOM	1256	CB	SER A	86143.057	-0.073	-7.602	1.00	0.00	C
	ATOM	1257	OG	SER A	86143.348	0.704	-8.751	1.00	0.00	O
	ATOM	1258	H	SER A	86143.000	2.340	-6.531	1.00	0.00	H
5	ATOM	1259	HA	SER A	86140.984	0.370	-7.316	1.00	0.00	H
	ATOM	1260	1HB	SER A	86143.942	-0.126	-6.986	1.00	0.00	H
	ATOM	1261	2HB	SER A	86142.778	-1.068	-7.916	1.00	0.00	H
	ATOM	1262	HG	SER A	86144.296	0.706	-8.905	1.00	0.00	H
	ATOM	1263	N	CYS A	87141.311	0.621	-4.445	1.00	0.00	N
10	ATOM	1264	CA	CYS A	87141.180	0.107	-3.086	1.00	0.00	C
	ATOM	1265	C	CYS A	87139.712	0.006	-2.683	1.00	0.00	C
	ATOM	1266	O	CYS A	87138.868	0.749	-3.182	1.00	0.00	O
	ATOM	1267	CB	CYS A	87141.929	1.008	-2.104	1.00	0.00	C
	ATOM	1268	SG	CYS A	87143.720	1.039	-2.349	1.00	0.00	S
15	ATOM	1269	H	CYS A	87141.005	1.530	-4.642	1.00	0.00	H
	ATOM	1270	HA	CYS A	87141.616	-0.880	-3.061	1.00	0.00	H
	ATOM	1271	1HB	CYS A	87141.568	2.020	-2.207	1.00	0.00	H
	ATOM	1272	2HB	CYS A	87141.741	0.665	-1.096	1.00	0.00	H
	ATOM	1273	HG	CYS A	87144.138	0.829	-1.511	1.00	0.00	H
20	ATOM	1274	N	ARG A	88139.416	-0.921	-1.777	1.00	0.00	N
	ATOM	1275	CA	ARG A	88138.050	-1.121	-1.307	1.00	0.00	C
	ATOM	1276	C	ARG A	88138.005	-1.203	0.219	1.00	0.00	C
	ATOM	1277	O	ARG A	88138.924	-1.729	0.846	1.00	0.00	O
	ATOM	1278	CB	ARG A	88137.458	-2.394	-1.918	1.00	0.00	C
25	ATOM	1279	CG	ARG A	88136.431	-2.125	-3.009	1.00	0.00	C
	ATOM	1280	CD	ARG A	88135.076	-2.726	-2.667	1.00	0.00	C
	ATOM	1281	NE	ARG A	88134.097	-1.701	-2.312	1.00	0.00	N
	ATOM	1282	CZ	ARG A	88133.646	-0.781	-3.162	1.00	0.00	C
	ATOM	1283	NH1	ARG A	88134.084	-0.752	-4.414	1.00	0.00	N



	ATOM	1284	NH2	ARG	A	88132.754	0.114	-2.758	1.00	0.00	N
	ATOM	1285	H	ARG	A	88140.132	-1.484	-1.416	1.00	0.00	H
	ATOM	1286	HA	ARG	A	88137.463	-0.273	-1.627	1.00	0.00	H
	ATOM	1287	1HB	ARG	A	88138.260	-2.978	-2.346	1.00	0.00	H
5	ATOM	1288	2HB	ARG	A	88136.983	-2.969	-1.138	1.00	0.00	H
	ATOM	1289	1HG	ARG	A	88136.320	-1.057	-3.128	1.00	0.00	H
	ATOM	1290	2HG	ARG	A	88136.784	-2.557	-3.934	1.00	0.00	H
	ATOM	1291	1HD	ARG	A	88134.714	-3.274	-3.524	1.00	0.00	H
	ATOM	1292	2HD	ARG	A	88135.195	-3.401	-1.832	1.00	0.00	H
10	ATOM	1293	HE	ARG	A	88133.756	-1.699	-1.393	1.00	0.00	H
	ATOM	1294	1HH1	ARG	A	88134.757	-1.424	-4.726	1.00	0.00	H
	ATOM	1295	2HH1	ARG	A	88133.742	-0.058	-5.047	1.00	0.00	H
	ATOM	1296	1HH2	ARG	A	88132.420	0.097	-1.815	1.00	0.00	H
	ATOM	1297	2HH2	ARG	A	88132.416	0.806	-3.395	1.00	0.00	H
15	ATOM	1298	N	PRO	A	89136.930	-0.683	0.838	1.00	0.00	N
	ATOM	1299	CA	PRO	A	89136.774	-0.703	2.296	1.00	0.00	C
	ATOM	1300	C	PRO	A	89136.931	-2.105	2.875	1.00	0.00	C
	ATOM	1301	O	PRO	A	89136.144	-3.003	2.574	1.00	0.00	O
	ATOM	1302	CB	PRO	A	89135.347	-0.195	2.512	1.00	0.00	C
20	ATOM	1303	CG	PRO	A	89135.044	0.615	1.300	1.00	0.00	C
	ATOM	1304	CD	PRO	A	89135.786	-0.038	0.168	1.00	0.00	C
	ATOM	1305	HA	PRO	A	89137.475	-0.037	2.777	1.00	0.00	H
	ATOM	1306	1HB	PRO	A	89134.675	-1.035	2.605	1.00	0.00	H
	ATOM	1307	2HB	PRO	A	89135.308	0.406	3.408	1.00	0.00	H
25	ATOM	1308	1HG	PRO	A	89133.981	0.605	1.108	1.00	0.00	H
	ATOM	1309	2HG	PRO	A	89135.391	1.628	1.439	1.00	0.00	H
	ATOM	1310	1HD	PRO	A	89135.160	-0.772	-0.319	1.00	0.00	H
	ATOM	1311	2HD	PRO	A	89136.122	0.703	-0.541	1.00	0.00	H
	ATOM	1312	N	ASP	A	90137.951	-2.286	3.707	1.00	0.00	N

	ATOM	1313	CA	ASP	A	90138.210	-3.579	4.329	1.00	0.00	C
	ATOM	1314	C	ASP	A	90137.750	-3.586	5.783	1.00	0.00	C
	ATOM	1315	O	ASP	A	90138.340	-2.918	6.633	1.00	0.00	O
	ATOM	1316	CB	ASP	A	90139.699	-3.915	4.251	1.00	0.00	C
5	ATOM	1317	CG	ASP	A	90139.952	-5.409	4.179	1.00	0.00	C
	ATOM	1318	OD1	ASP	A	90140.458	-5.974	5.171	1.00	0.00	O
	ATOM	1319	OD2	ASP	A	90139.643	-6.013	3.131	1.00	0.00	O
	ATOM	1320	H	ASP	A	90138.543	-1.532	3.909	1.00	0.00	H
	ATOM	1321	HA	ASP	A	90137.652	-4.326	3.784	1.00	0.00	H
10	ATOM	1322	1HB	ASP	A	90140.121	-3.455	3.370	1.00	0.00	H
	ATOM	1323	2HB	ASP	A	90140.195	-3.527	5.128	1.00	0.00	H
	ATOM	1324	N	SER	A	91136.697	-4.345	6.063	1.00	0.00	N
	ATOM	1325	CA	SER	A	91136.163	-4.439	7.417	1.00	0.00	C
	ATOM	1326	C	SER	A	91136.405	-5.826	8.004	1.00	0.00	C
15	ATOM	1327	O	SER	A	91135.654	-6.286	8.864	1.00	0.00	O
	ATOM	1328	CB	SER	A	91134.664	-4.130	7.419	1.00	0.00	C
	ATOM	1329	OG	SER	A	91134.264	-3.549	8.648	1.00	0.00	O
	ATOM	1330	H	SER	A	91136.270	-4.856	5.344	1.00	0.00	H
	ATOM	1331	HA	SER	A	91136.672	-3.708	8.027	1.00	0.00	H
20	ATOM	1332	1HB	SER	A	91134.440	-3.440	6.619	1.00	0.00	H
	ATOM	1333	2HB	SER	A	91134.111	-5.046	7.272	1.00	0.00	H
	ATOM	1334	HG	SER	A	91134.508	-2.620	8.658	1.00	0.00	H
	ATOM	1335	N	ARG	A	92137.459	-6.487	7.536	1.00	0.00	N
	ATOM	1336	CA	ARG	A	92137.799	-7.821	8.017	1.00	0.00	C
25	ATOM	1337	C	ARG	A	92138.193	-7.782	9.490	1.00	0.00	C
	ATOM	1338	O	ARG	A	92137.991	-8.751	10.223	1.00	0.00	O
	ATOM	1339	CB	ARG	A	92138.940	-8.410	7.187	1.00	0.00	C
	ATOM	1340	CG	ARG	A	92138.468	-9.193	5.972	1.00	0.00	C
	ATOM	1341	CD	ARG	A	92138.300	-8.294	4.757	1.00	0.00	C

	ATOM	1342	NE	ARG	A	92136.945	-8.354	4.214	1.00	0.00	N
	ATOM	1343	CZ	ARG	A	92136.620	-7.964	2.984	1.00	0.00	C
	ATOM	1344	NH1	ARG	A	92137.549	-7.484	2.165	1.00	0.00	N
	ATOM	1345	NH2	ARG	A	92135.364	-8.053	2.569	1.00	0.00	N
5	ATOM	1346	H	ARG	A	92138.021	-6.068	6.851	1.00	0.00	H
	ATOM	1347	HA	ARG	A	92136.925	-8.445	7.907	1.00	0.00	H
	ATOM	1348	1HB	ARG	A	92139.575	-7.605	6.845	1.00	0.00	H
	ATOM	1349	2HB	ARG	A	92139.520	-9.073	7.812	1.00	0.00	H
	ATOM	1350	1HG	ARG	A	92139.195	-9.958	5.744	1.00	0.00	H
10	ATOM	1351	2HG	ARG	A	92137.518	-9.654	6.201	1.00	0.00	H
	ATOM	1352	1HD	ARG	A	92138.517	-7.276	5.043	1.00	0.00	H
	ATOM	1353	2HD	ARG	A	92138.997	-8.609	3.994	1.00	0.00	H
	ATOM	1354	HE	ARG	A	92136.240	-8.704	4.798	1.00	0.00	H
	ATOM	1355	1HH1	ARG	A	92138.499	-7.414	2.472	1.00	0.00	H
15	ATOM	1356	2HH1	ARG	A	92137.299	-7.193	1.242	1.00	0.00	H
	ATOM	1357	1HH2	ARG	A	92134.660	-8.414	3.182	1.00	0.00	H
	ATOM	1358	2HH2	ARG	A	92135.120	-7.759	1.646	1.00	0.00	H
	ATOM	1359	N	PHE	A	93138.757	-6.657	9.917	1.00	0.00	N
	ATOM	1360	CA	PHE	A	93139.180	-6.492	11.304	1.00	0.00	C
20	ATOM	1361	C	PHE	A	93138.401	-5.369	11.982	1.00	0.00	C
	ATOM	1362	O	PHE	A	93138.910	-4.705	12.885	1.00	0.00	O
	ATOM	1363	CB	PHE	A	93140.679	-6.198	11.369	1.00	0.00	C
	ATOM	1364	CG	PHE	A	93141.523	-7.226	10.669	1.00	0.00	C
	ATOM	1365	CD1	PHE	A	93142.351	-8.069	11.393	1.00	0.00	C
25	ATOM	1366	CD2	PHE	A	93141.487	-7.347	9.290	1.00	0.00	C
	ATOM	1367	CE1	PHE	A	93143.128	-9.015	10.752	1.00	0.00	C
	ATOM	1368	CE2	PHE	A	93142.262	-8.291	8.643	1.00	0.00	C
	ATOM	1369	CZ	PHE	A	93143.084	-9.127	9.375	1.00	0.00	C
	ATOM	1370	H	PHE	A	93138.892	-5.919	9.286	1.00	0.00	H

	ATOM	1371	HA	PHE A	93138.980	-7.417	11.823	1.00	0.00	H
	ATOM	1372	1HB	PHE A	93140.872	-5.241	10.908	1.00	0.00	H
	ATOM	1373	2HB	PHE A	93140.986	-6.162	12.404	1.00	0.00	H
	ATOM	1374	HD1	PHE A	93142.386	-7.983	12.469	1.00	0.00	H
5	ATOM	1375	HD2	PHE A	93140.845	-6.695	8.717	1.00	0.00	H
	ATOM	1376	HE1	PHE A	93143.770	-9.667	11.326	1.00	0.00	H
	ATOM	1377	HE2	PHE A	93142.225	-8.376	7.567	1.00	0.00	H
	ATOM	1378	HZ	PHE A	93143.690	-9.865	8.873	1.00	0.00	H
	ATOM	1379	N	ALA A	94137.162	-5.162	11.543	1.00	0.00	N
10	ATOM	1380	CA	ALA A	94136.315	-4.119	12.109	1.00	0.00	C
	ATOM	1381	C	ALA A	94136.137	-4.315	13.612	1.00	0.00	C
	ATOM	1382	O	ALA A	94135.661	-5.358	14.061	1.00	0.00	O
	ATOM	1383	CB	ALA A	94134.964	-4.101	11.410	1.00	0.00	C
	ATOM	1384	H	ALA A	94136.811	-5.723	10.819	1.00	0.00	H
15	ATOM	1385	HA	ALA A	94136.796	-3.168	11.936	1.00	0.00	H
	ATOM	1386	1HB	ALA A	94134.900	-3.232	10.773	1.00	0.00	H
	ATOM	1387	2HB	ALA A	94134.175	-4.065	12.147	1.00	0.00	H
	ATOM	1388	3HB	ALA A	94134.856	-4.994	10.812	1.00	0.00	H
	ATOM	1389	N	SER A	95136.521	-3.304	14.385	1.00	0.00	N
20	ATOM	1390	CA	SER A	95136.403	-3.364	15.837	1.00	0.00	C
	ATOM	1391	C	SER A	95134.940	-3.417	16.263	1.00	0.00	C
	ATOM	1392	O	SER A	95134.056	-2.942	15.549	1.00	0.00	O
	ATOM	1393	CB	SER A	95137.088	-2.155	16.476	1.00	0.00	C
	ATOM	1394	OG	SER A	95138.479	-2.154	16.204	1.00	0.00	O
25	ATOM	1395	H	SER A	95136.892	-2.498	13.968	1.00	0.00	H
	ATOM	1396	HA	SER A	95136.895	-4.265	16.172	1.00	0.00	H
	ATOM	1397	1HB	SER A	95136.657	-1.249	16.081	1.00	0.00	H
	ATOM	1398	2HB	SER A	95136.943	-2.187	17.546	1.00	0.00	H
	ATOM	1399	HG	SER A	95138.947	-2.573	16.930	1.00	0.00	H

	ATOM	1400	N	LEU A	96134.689	-3.999	17.432	1.00	0.00	N
	ATOM	1401	CA	LEU A	96133.333	-4.114	17.954	1.00	0.00	C
	ATOM	1402	C	LEU A	96132.453	-4.926	17.010	1.00	0.00	C
	ATOM	1403	O	LEU A	96131.929	-4.402	16.027	1.00	0.00	O
5	ATOM	1404	CB	LEU A	96132.727	-2.726	18.167	1.00	0.00	C
	ATOM	1405	CG	LEU A	96131.527	-2.680	19.115	1.00	0.00	C
	ATOM	1406	CD1	LEU A	96131.490	-1.359	19.866	1.00	0.00	C
	ATOM	1407	CD2	LEU A	96130.232	-2.895	18.344	1.00	0.00	C
	ATOM	1408	H	LEU A	96135.436	-4.359	17.956	1.00	0.00	H
10	ATOM	1409	HA	LEU A	96133.386	-4.624	18.904	1.00	0.00	H
	ATOM	1410	1HB	LEU A	96133.496	-2.077	18.561	1.00	0.00	H
	ATOM	1411	2HB	LEU A	96132.413	-2.342	17.208	1.00	0.00	H
	ATOM	1412	HG	LEU A	96131.621	-3.475	19.840	1.00	0.00	H
	ATOM	1413	1HD1	LEU A	96131.103	-0.587	19.218	1.00	0.00	H
15	ATOM	1414	2HD1	LEU A	96132.487	-1.097	20.183	1.00	0.00	H
	ATOM	1415	3HD1	LEU A	96130.851	-1.456	20.732	1.00	0.00	H
	ATOM	1416	1HD2	LEU A	96130.444	-3.422	17.426	1.00	0.00	H
	ATOM	1417	2HD2	LEU A	96129.787	-1.938	18.116	1.00	0.00	H
	ATOM	1418	3HD2	LEU A	96129.548	-3.477	18.945	1.00	0.00	H
20	ATOM	1419	N	GLN A	97132.295	-6.211	17.314	1.00	0.00	N
	ATOM	1420	CA	GLN A	97131.478	-7.096	16.492	1.00	0.00	C
	ATOM	1421	C	GLN A	97130.853	-8.204	17.339	1.00	0.00	C
	ATOM	1422	O	GLN A	97131.005	-9.388	17.040	1.00	0.00	O
	ATOM	1423	CB	GLN A	97132.321	-7.708	15.371	1.00	0.00	C
25	ATOM	1424	CG	GLN A	97131.511	-8.109	14.149	1.00	0.00	C
	ATOM	1425	CD	GLN A	97132.049	-9.356	13.476	1.00	0.00	C
	ATOM	1426	OE1	GLN A	97132.386	-10.337	14.138	1.00	0.00	O
	ATOM	1427	NE2	GLN A	97132.134	-9.323	12.151	1.00	0.00	N
	ATOM	1428	H	GLN A	97132.738	-6.571	18.110	1.00	0.00	H

	ATOM	1429	HA	GLN A	97130.687	-6.506	16.055	1.00	0.00	H
	ATOM	1430	1HB	GLN A	97133.065	-6.987	15.061	1.00	0.00	H
	ATOM	1431	2HB	GLN A	97132.821	-8.588	15.750	1.00	0.00	H
	ATOM	1432	1HG	GLN A	97130.492	-8.296	14.455	1.00	0.00	H
5	ATOM	1433	2HG	GLN A	97131.530	-7.296	13.438	1.00	0.00	H
	ATOM	1434	1HE2	GLN A	97131.847	-8.508	11.689	1.00	0.00	H
	ATOM	1435	2HE2	GLN A	97132.478	-10.116	11.690	1.00	0.00	H
	ATOM	1436	N	PRO A	98130.137	-7.830	18.413	1.00	0.00	N
	ATOM	1437	CA	PRO A	98129.487	-8.797	19.305	1.00	0.00	C
10	ATOM	1438	C	PRO A	98128.279	-9.461	18.655	1.00	0.00	C
	ATOM	1439	O	PRO A	98128.061	-9.336	17.449	1.00	0.00	O
	ATOM	1440	CB	PRO A	98129.050	-7.941	20.495	1.00	0.00	C
	ATOM	1441	CG	PRO A	98128.876	-6.573	19.933	1.00	0.00	C
	ATOM	1442	CD	PRO A	98129.904	-6.437	18.843	1.00	0.00	C
15	ATOM	1443	HA	PRO A	98130.179	-9.556	19.637	1.00	0.00	H
	ATOM	1444	1HB	PRO A	98128.126	-8.326	20.898	1.00	0.00	H
	ATOM	1445	2HB	PRO A	98129.817	-7.960	21.256	1.00	0.00	H
	ATOM	1446	1HG	PRO A	98127.881	-6.469	19.526	1.00	0.00	H
	ATOM	1447	2HG	PRO A	98129.046	-5.836	20.703	1.00	0.00	H
20	ATOM	1448	1HD	PRO A	98129.515	-5.843	18.029	1.00	0.00	H
	ATOM	1449	2HD	PRO A	98130.810	-5.998	19.233	1.00	0.00	H
	ATOM	1450	N	SER A	99127.494	-10.169	19.462	1.00	0.00	N
	ATOM	1451	CA	SER A	99126.306	-10.854	18.966	1.00	0.00	C
	ATOM	1452	C	SER A	99125.385	-11.247	20.115	1.00	0.00	C
25	ATOM	1453	O	SER A	99125.840	-11.743	21.146	1.00	0.00	O
	ATOM	1454	CB	SER A	99126.704	-12.096	18.168	1.00	0.00	C
	ATOM	1455	OG	SER A	99127.637	-11.774	17.150	1.00	0.00	O
	ATOM	1456	H	SER A	99127.719	-10.231	20.413	1.00	0.00	H
	ATOM	1457	HA	SER A	99125.778	-10.172	18.315	1.00	0.00	H

	ATOM	1458	1HB	SER A	99127.153	-12.820	18.832	1.00	0.00	H
	ATOM	1459	2HB	SER A	99125.824	-12.526	17.710	1.00	0.00	H
	ATOM	1460	HG	SER A	99128.438	-12.286	17.275	1.00	0.00	H
	ATOM	1461	N	GLY A	100124.088	-11.024	19.932	1.00	0.00	N
5	ATOM	1462	CA	GLY A	100123.124	-11.361	20.963	1.00	0.00	C
	ATOM	1463	C	GLY A	100121.706	-11.447	20.429	1.00	0.00	C
	ATOM	1464	O	GLY A	100120.983	-10.451	20.420	1.00	0.00	O
	ATOM	1465	H	GLY A	100123.782	-10.626	19.090	1.00	0.00	H
	ATOM	1466	1HA	GLY A	100123.394	-12.314	21.393	1.00	0.00	H
10	ATOM	1467	2HA	GLY A	100123.161	-10.607	21.736	1.00	0.00	H
	ATOM	1468	N	PRO A	101121.277	-12.635	19.970	1.00	0.00	N
	ATOM	1469	CA	PRO A	101119.927	-12.833	19.431	1.00	0.00	C
	ATOM	1470	C	PRO A	101118.856	-12.759	20.514	1.00	0.00	C
	ATOM	1471	O	PRO A	101117.797	-12.164	20.313	1.00	0.00	O
15	ATOM	1472	CB	PRO A	101119.986	-14.239	18.833	1.00	0.00	C
	ATOM	1473	CG	PRO A	101121.058	-14.933	19.599	1.00	0.00	C
	ATOM	1474	CD	PRO A	101122.072	-13.877	19.941	1.00	0.00	C
	ATOM	1475	HA	PRO A	101119.703	-12.117	18.655	1.00	0.00	H
	ATOM	1476	1HB	PRO A	101119.030	-14.727	18.958	1.00	0.00	H
20	ATOM	1477	2HB	PRO A	101120.230	-14.177	17.782	1.00	0.00	H
	ATOM	1478	1HG	PRO A	101120.646	-15.363	20.501	1.00	0.00	H
	ATOM	1479	2HG	PRO A	101121.508	-15.702	18.989	1.00	0.00	H
	ATOM	1480	1HD	PRO A	101122.513	-14.076	20.907	1.00	0.00	H
	ATOM	1481	2HD	PRO A	101122.836	-13.827	19.179	1.00	0.00	H
25	ATOM	1482	N	SER A	102119.138	-13.367	21.661	1.00	0.00	N
	ATOM	1483	CA	SER A	102118.198	-13.369	22.776	1.00	0.00	C
	ATOM	1484	C	SER A	102116.891	-14.051	22.386	1.00	0.00	C
	ATOM	1485	O	SER A	102116.548	-14.126	21.206	1.00	0.00	O
	ATOM	1486	CB	SER A	102117.922	-11.938	23.242	1.00	0.00	C

	ATOM	1487	OG	SER A	102118.809	-11.557	24.277	1.00	0.00	O
	ATOM	1488	H	SER A	102119.999	-13.824	21.760	1.00	0.00	H
	ATOM	1489	HA	SER A	102118.650	-13.921	23.588	1.00	0.00	H
	ATOM	1490	1HB	SER A	102118.047	-11.261	22.410	1.00	0.00	H
5	ATOM	1491	2HB	SER A	102116.908	-11.872	23.609	1.00	0.00	H
	ATOM	1492	HG	SER A	102119.210	-10.712	24.061	1.00	0.00	H
	ATOM	1493	N	SER A	103116.168	-14.548	23.383	1.00	0.00	N
	ATOM	1494	CA	SER A	103114.898	-15.225	23.144	1.00	0.00	C
	ATOM	1495	C	SER A	103113.728	-14.368	23.617	1.00	0.00	C
10	ATOM	1496	O	SER A	103113.660	-13.981	24.784	1.00	0.00	O
	ATOM	1497	CB	SER A	103114.875	-16.578	23.856	1.00	0.00	C
	ATOM	1498	OG	SER A	103115.624	-16.535	25.059	1.00	0.00	O
	ATOM	1499	H	SER A	103116.495	-14.458	24.303	1.00	0.00	H
	ATOM	1500	HA	SER A	103114.804	-15.386	22.081	1.00	0.00	H
15	ATOM	1501	1HB	SER A	103113.855	-16.840	24.093	1.00	0.00	H
	ATOM	1502	2HB	SER A	103115.299	-17.330	23.208	1.00	0.00	H
	ATOM	1503	HG	SER A	103116.371	-17.133	24.992	1.00	0.00	H
	ATOM	1504	N	GLY A	104112.809	-14.076	22.702	1.00	0.00	N
	ATOM	1505	CA	GLY A	104111.653	-13.267	23.046	1.00	0.00	C
20	ATOM	1506	C	GLY A	104112.037	-11.875	23.512	1.00	0.00	C
	ATOM	1507	O	GLY A	104111.578	-11.468	24.600	1.00	0.00	O
	ATOM	1508	OXT	GLY A	104112.796	-11.196	22.791	1.00	0.00	O
	ATOM	1509	H	GLY A	104112.915	-14.411	21.788	1.00	0.00	H
	ATOM	1510	1HA	GLY A	104111.018	-13.179	22.176	1.00	0.00	H
25	ATOM	1511	2HA	GLY A	104111.103	-13.760	23.833	1.00	0.00	H
	TER	1512	GLY A	104						
	ENDMDL									



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	ATOM 1	N	GLY A	1119.934	2.440	-12.362	1.00	0.00	N
	ATOM 2	CA	GLY A	1120.718	2.882	-11.176	1.00	0.00	C
	ATOM 3	C	GLY A	1121.589	4.087	-11.473	1.00	0.00	C
	ATOM 4	O	GLY A	1122.802	4.050	-11.266	1.00	0.00	O
5	ATOM 5	1H	GLY A	1120.404	1.634	-12.822	1.00	0.00	H
	ATOM 6	2H	GLY A	1119.854	3.217	-13.049	1.00	0.00	H
	ATOM 7	3H	GLY A	1118.978	2.151	-12.071	1.00	0.00	H
	ATOM 8	1HA	GLY A	1120.034	3.135	-10.380	1.00	0.00	H
	ATOM 9	2HA	GLY A	1121.348	2.067	-10.851	1.00	0.00	H
10	ATOM10	N	SER A	2120.970	5.157	-11.960	1.00	0.00	N
	ATOM11	CA	SER A	2121.698	6.378	-12.287	1.00	0.00	C
	ATOM12	C	SER A	2122.748	6.115	-13.362	1.00	0.00	C
	ATOM13	O	SER A	2123.937	6.005	-13.067	1.00	0.00	O
	ATOM14	CB	SER A	2122.364	6.950	-11.035	1.00	0.00	C
15	ATOM15	OG	SER A	2121.480	7.806	-10.331	1.00	0.00	O
	ATOM16	H	SER A	2120.001	5.125	-12.104	1.00	0.00	H
	ATOM17	HA	SER A	2120.985	7.096	-12.665	1.00	0.00	H
	ATOM18	1HB	SER A	2122.654	6.140	-10.382	1.00	0.00	H
	ATOM19	2HB	SER A	2123.239	7.514	-11.321	1.00	0.00	H
20	ATOM20	HG	SER A	2121.576	7.661	-9.387	1.00	0.00	H
	ATOM21	N	SER A	3122.299	6.016	-14.609	1.00	0.00	N
	ATOM22	CA	SER A	3123.200	5.765	-15.728	1.00	0.00	C
	ATOM23	C	SER A	3123.931	4.438	-15.551	1.00	0.00	C
	ATOM24	O	SER A	3123.690	3.708	-14.590	1.00	0.00	O
25	ATOM25	CB	SER A	3124.211	6.905	-15.859	1.00	0.00	C
	ATOM26	OG	SER A	3123.566	8.124	-16.188	1.00	0.00	O
	ATOM27	H	SER A	3121.339	6.112	-14.781	1.00	0.00	H
	ATOM28	HA	SER A	3122.605	5.717	-16.628	1.00	0.00	H
	ATOM29	1HB	SER A	3124.734	7.030	-14.923	1.00	0.00	H

	ATOM30	2HB	SER A	3124.919	6.666	-16.639	1.00	0.00	H
	ATOM31	HG	SER A	3122.788	8.233	-15.637	1.00	0.00	H
	ATOM32	N	GLY A	4124.827	4.134	-16.485	1.00	0.00	N
	ATOM33	CA	GLY A	4125.580	2.896	-16.413	1.00	0.00	C
5	ATOM34	C	GLY A	4126.815	3.017	-15.541	1.00	0.00	C
	ATOM35	O	GLY A	4127.021	4.037	-14.883	1.00	0.00	O
	ATOM36	H	GLY A	4124.978	4.755	-17.227	1.00	0.00	H
	ATOM37	1HA	GLY A	4124.942	2.122	-16.011	1.00	0.00	H
	ATOM38	2HA	GLY A	4125.883	2.614	-17.411	1.00	0.00	H
10	ATOM39	N	SER A	5127.638	1.973	-15.537	1.00	0.00	N
	ATOM40	CA	SER A	5128.859	1.967	-14.740	1.00	0.00	C
	ATOM41	C	SER A	5128.541	2.115	-13.255	1.00	0.00	C
	ATOM42	O	SER A	5127.375	2.182	-12.864	1.00	0.00	O
	ATOM43	CB	SER A	5129.792	3.093	-15.188	1.00	0.00	C
15	ATOM44	OG	SER A	5130.310	2.842	-16.482	1.00	0.00	O
	ATOM45	H	SER A	5127.419	1.190	-16.083	1.00	0.00	H
	ATOM46	HA	SER A	5129.352	1.019	-14.897	1.00	0.00	H
	ATOM47	1HB	SER A	5129.245	4.025	-15.208	1.00	0.00	H
	ATOM48	2HB	SER A	5130.615	3.174	-14.493	1.00	0.00	H
20	ATOM49	HG	SER A	5130.634	1.939	-16.528	1.00	0.00	H
	ATOM50	N	SER A	6129.584	2.166	-12.434	1.00	0.00	N
	ATOM51	CA	SER A	6129.415	2.307	-10.992	1.00	0.00	C
	ATOM52	C	SER A	6128.918	3.704	-10.637	1.00	0.00	C
	ATOM53	O	SER A	6128.643	4.519	-11.517	1.00	0.00	O
25	ATOM54	CB	SER A	6130.735	2.024	-10.273	1.00	0.00	C
	ATOM55	OG	SER A	6130.834	0.658	-9.907	1.00	0.00	O
	ATOM56	H	SER A	6130.488	2.108	-12.805	1.00	0.00	H
	ATOM57	HA	SER A	6128.680	1.584	-10.673	1.00	0.00	H
	ATOM58	1HB	SER A	6131.558	2.268	-10.928	1.00	0.00	H

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	ATOM59	2HB	SER A	6130.794	2.629	-9.380	1.00	0.00	H
	ATOM60	HG	SER A	6131.760	0.409	-9.847	1.00	0.00	H
	ATOM61	N	GLY A	7128.805	3.974	-9.340	1.00	0.00	N
	ATOM62	CA	GLY A	7128.341	5.274	-8.891	1.00	0.00	C
5	ATOM63	C	GLY A	7129.005	5.713	-7.601	1.00	0.00	C
	ATOM64	O	GLY A	7129.918	5.051	-7.108	1.00	0.00	O
	ATOM65	H	GLY A	7129.039	3.285	-8.683	1.00	0.00	H
	ATOM66	1HA	GLY A	7128.552	6.003	-9.658	1.00	0.00	H
	ATOM67	2HA	GLY A	7127.273	5.228	-8.736	1.00	0.00	H
10	ATOM68	N	LEU A	8128.544	6.833	-7.053	1.00	0.00	N
	ATOM69	CA	LEU A	8129.099	7.360	-5.811	1.00	0.00	C
	ATOM70	C	LEU A	8127.992	7.667	-4.808	1.00	0.00	C
	ATOM71	O	LEU A	8126.829	7.822	-5.180	1.00	0.00	O
	ATOM72	CB	LEU A	8129.916	8.624	-6.089	1.00	0.00	C
15	ATOM73	CG	LEU A	8131.353	8.378	-6.550	1.00	0.00	C
	ATOM74	CD1	LEU A	8131.955	9.650	-7.124	1.00	0.00	C
	ATOM75	CD2	LEU A	8132.199	7.859	-5.397	1.00	0.00	C
	ATOM76	H	LEU A	8127.814	7.315	-7.493	1.00	0.00	H
	ATOM77	HA	LEU A	8129.750	6.607	-5.392	1.00	0.00	H
20	ATOM78	1HB	LEU A	8129.407	9.194	-6.854	1.00	0.00	H
	ATOM79	2HB	LEU A	8129.947	9.213	-5.186	1.00	0.00	H
	ATOM80	HG	LEU A	8131.352	7.628	-7.328	1.00	0.00	H
	ATOM81	1HD1	LEU A	8131.820	10.461	-6.423	1.00	0.00	H
	ATOM82	2HD1	LEU A	8131.462	9.894	-8.054	1.00	0.00	H
25	ATOM83	3HD1	LEU A	8133.010	9.501	-7.304	1.00	0.00	H
	ATOM84	1HD2	LEU A	8132.928	7.157	-5.772	1.00	0.00	H
	ATOM85	2HD2	LEU A	8131.562	7.367	-4.676	1.00	0.00	H
	ATOM86	3HD2	LEU A	8132.706	8.686	-4.922	1.00	0.00	H
	ATOM87	N	ALA A	9128.361	7.754	-3.534	1.00	0.00	N

	ATOM88	CA	ALA	A	9127.398	8.042	-2.478	1.00	0.00	C	
	ATOM89	C	ALA	A	9128.053	8.796	-1.326	1.00	0.00	C	
	ATOM90	O	ALA	A	9127.633	8.677	-0.176	1.00	0.00	O	
	ATOM91	CB	ALA	A	9126.766	6.754	-1.975	1.00	0.00	C	
5	ATOM92	H	ALA	A	9129.303	7.619	-3.299	1.00	0.00	H	
	ATOM93	HA	ALA	A	9126.617	8.658	-2.899	1.00	0.00	H	
	ATOM94	1HB	ALA	A	9127.284	6.421	-1.087	1.00	0.00	H	
	ATOM95	2HB	ALA	A	9126.839	5.994	-2.740	1.00	0.00	H	
	ATOM96	3HB	ALA	A	9125.726	6.929	-1.742	1.00	0.00	H	
10	ATOM97	N	MET	A	10129.085	9.573	-1.643	1.00	0.00	N	
	ATOM98	CA	MET	A	10129.796	10.347	-0.633	1.00	0.00	C	
	ATOM99	C	MET	A	10130.666	11.422	-1.282	1.00	0.00	C	
	ATOM	100	O	MET	A	10131.871	11.241	-1.449	1.00	0.00	O
	ATOM	101	CB	MET	A	10130.664	9.427	0.230	1.00	0.00	C
15	ATOM	102	CG	MET	A	10130.012	9.038	1.548	1.00	0.00	C
	ATOM	103	SD	MET	A	10130.760	9.864	2.965	1.00	0.00	S
	ATOM	104	CE	MET	A	10132.424	9.208	2.903	1.00	0.00	C
	ATOM	105	H	MET	A	10129.373	9.628	-2.578	1.00	0.00	H
	ATOM	106	HA	MET	A	10129.061	10.827	-0.005	1.00	0.00	H
20	ATOM	107	1HB	MET	A	10130.870	8.525	-0.325	1.00	0.00	H
	ATOM	108	2HB	MET	A	10131.596	9.928	0.446	1.00	0.00	H
	ATOM	109	1HG	MET	A	10128.966	9.301	1.508	1.00	0.00	H
	ATOM	110	2HG	MET	A	10130.109	7.970	1.680	1.00	0.00	H
	ATOM	111	1HE	MET	A	10132.732	9.103	1.872	1.00	0.00	H
25	ATOM	112	2HE	MET	A	10132.449	8.242	3.384	1.00	0.00	H
	ATOM	113	3HE	MET	A	10133.098	9.881	3.412	1.00	0.00	H
	ATOM	114	N	PRO	A	11130.060	12.563	-1.655	1.00	0.00	N
	ATOM	115	CA	PRO	A	11130.787	13.668	-2.285	1.00	0.00	C
	ATOM	116	C	PRO	A	11131.997	14.110	-1.464	1.00	0.00	C

	ATOM	117	O	PRO A	11133.081	14.317	-2.011	1.00	0.00	O
	ATOM	118	CB	PRO A	11129.751	14.793	-2.359	1.00	0.00	C
	ATOM	119	CG	PRO A	11128.428	14.110	-2.301	1.00	0.00	C
	ATOM	120	CD	PRO A	11128.627	12.861	-1.489	1.00	0.00	C
5	ATOM	121	HA	PRO A	11131.110	13.409	-3.282	1.00	0.00	H
	ATOM	122	1HB	PRO A	11129.886	15.465	-1.524	1.00	0.00	H
	ATOM	123	2HB	PRO A	11129.873	15.335	-3.285	1.00	0.00	H
	ATOM	124	1HG	PRO A	11127.708	14.752	-1.821	1.00	0.00	H
	ATOM	125	2HG	PRO A	11128.101	13.859	-3.300	1.00	0.00	H
10	ATOM	126	1HD	PRO A	11128.392	13.045	-0.451	1.00	0.00	H
	ATOM	127	2HD	PRO A	11128.020	12.057	-1.877	1.00	0.00	H
	ATOM	128	N	PRO A	12131.836	14.258	-0.134	1.00	0.00	N
	ATOM	129	CA	PRO A	12132.932	14.672	0.747	1.00	0.00	C
	ATOM	130	C	PRO A	12134.071	13.659	0.754	1.00	0.00	C
15	ATOM	131	O	PRO A	12135.204	13.984	1.107	1.00	0.00	O
	ATOM	132	CB	PRO A	12132.283	14.754	2.136	1.00	0.00	C
	ATOM	133	CG	PRO A	12130.815	14.809	1.879	1.00	0.00	C
	ATOM	134	CD	PRO A	12130.591	14.030	0.616	1.00	0.00	C
	ATOM	135	HA	PRO A	12133.318	15.642	0.469	1.00	0.00	H
20	ATOM	136	1HB	PRO A	12132.549	13.879	2.711	1.00	0.00	H
	ATOM	137	2HB	PRO A	12132.626	15.641	2.644	1.00	0.00	H
	ATOM	138	1HG	PRO A	12130.281	14.354	2.700	1.00	0.00	H
	ATOM	139	2HG	PRO A	12130.502	15.834	1.748	1.00	0.00	H
	ATOM	140	1HD	PRO A	12130.458	12.981	0.837	1.00	0.00	H
25	ATOM	141	2HD	PRO A	12129.738	14.416	0.081	1.00	0.00	H
	ATOM	142	N	GLY A	13133.759	12.427	0.361	1.00	0.00	N
	ATOM	143	CA	GLY A	13134.766	11.384	0.327	1.00	0.00	C
	ATOM	144	C	GLY A	13135.229	11.068	-1.082	1.00	0.00	C
	ATOM	145	O	GLY A	13134.684	11.593	-2.053	1.00	0.00	O

	ATOM	146	H	GLY A	13132.837	12.226	0.090	1.00	0.00	H
	ATOM	147	1HA	GLY A	13135.617	11.700	0.911	1.00	0.00	H
	ATOM	148	2HA	GLY A	13134.355	10.487	0.768	1.00	0.00	H
	ATOM	149	N	ASN A	14136.236	10.209	-1.194	1.00	0.00	N
5	ATOM	150	CA	ASN A	14136.770	9.824	-2.495	1.00	0.00	C
	ATOM	151	C	ASN A	14135.847	8.829	-3.190	1.00	0.00	C
	ATOM	152	O	ASN A	14135.407	9.058	-4.316	1.00	0.00	O
	ATOM	153	CB	ASN A	14138.167	9.219	-2.337	1.00	0.00	C
	ATOM	154	CG	ASN A	14139.066	10.061	-1.454	1.00	0.00	C
10	ATOM	155	OD1	ASN A	14139.732	10.984	-1.925	1.00	0.00	O
	ATOM	156	ND2	ASN A	14139.090	9.749	-0.164	1.00	0.00	N
	ATOM	157	H	ASN A	14136.629	9.823	-0.383	1.00	0.00	H
	ATOM	158	HA	ASN A	14136.841	10.715	-3.100	1.00	0.00	H
	ATOM	159	1HB	ASN A	14138.079	8.237	-1.896	1.00	0.00	H
15	ATOM	160	2HB	ASN A	14138.627	9.133	-3.310	1.00	0.00	H
	ATOM	161	1HD2	ASN A	14138.535	9.002	0.142	1.00	0.00	H
	ATOM	162	2HD2	ASN A	14139.663	10.277	0.430	1.00	0.00	H
	ATOM	163	N	SER A	15135.560	7.722	-2.512	1.00	0.00	N
	ATOM	164	CA	SER A	15134.689	6.693	-3.065	1.00	0.00	C
20	ATOM	165	C	SER A	15133.686	6.210	-2.022	1.00	0.00	C
	ATOM	166	O	SER A	15132.492	6.099	-2.300	1.00	0.00	O
	ATOM	167	CB	SER A	15135.520	5.512	-3.574	1.00	0.00	C
	ATOM	168	OG	SER A	15134.733	4.638	-4.365	1.00	0.00	O
	ATOM	169	H	SER A	15135.942	7.596	-1.618	1.00	0.00	H
25	ATOM	170	HA	SER A	15134.149	7.125	-3.893	1.00	0.00	H
	ATOM	171	1HB	SER A	15136.337	5.884	-4.175	1.00	0.00	H
	ATOM	172	2HB	SER A	15135.913	4.962	-2.732	1.00	0.00	H
	ATOM	173	HG	SER A	15133.932	4.410	-3.889	1.00	0.00	H
	ATOM	174	N	HIS A	16134.179	5.924	-0.822	1.00	0.00	N

	ATOM	175	CA	HIS A	16133.325	5.452	0.263	1.00	0.00	C
	ATOM	176	C	HIS A	16133.925	5.807	1.620	1.00	0.00	C
	ATOM	177	O	HIS A	16133.233	6.314	2.502	1.00	0.00	O
	ATOM	178	CB	HIS A	16133.124	3.940	0.160	1.00	0.00	C
5	ATOM	179	CG	HIS A	16131.734	3.497	0.497	1.00	0.00	C
	ATOM	180	ND1	HIS A	16131.293	3.324	1.793	1.00	0.00	N
	ATOM	181	CD2	HIS A	16130.683	3.192	-0.300	1.00	0.00	C
	ATOM	182	CE1	HIS A	16130.032	2.931	1.777	1.00	0.00	C
	ATOM	183	NE2	HIS A	16129.638	2.843	0.520	1.00	0.00	N
10	ATOM	184	H	HIS A	16135.140	6.032	-0.662	1.00	0.00	H
	ATOM	185	HA	HIS A	16132.367	5.942	0.166	1.00	0.00	H
	ATOM	186	1HB	HIS A	16133.337	3.623	-0.849	1.00	0.00	H
	ATOM	187	2HB	HIS A	16133.806	3.445	0.838	1.00	0.00	H
	ATOM	188	HD1	HIS A	16131.825	3.467	2.603	1.00	0.00	H
15	ATOM	189	HD2	HIS A	16130.670	3.217	-1.381	1.00	0.00	H
	ATOM	190	HE1	HIS A	16129.425	2.718	2.646	1.00	0.00	H
	ATOM	191	HE2	HIS A	16128.774	2.491	0.222	1.00	0.00	H
	ATOM	192	N	GLY A	17135.217	5.537	1.779	1.00	0.00	N
	ATOM	193	CA	GLY A	17135.887	5.834	3.032	1.00	0.00	C
20	ATOM	194	C	GLY A	17137.270	5.217	3.109	1.00	0.00	C
	ATOM	195	O	GLY A	17137.577	4.481	4.045	1.00	0.00	O
	ATOM	196	H	GLY A	17135.718	5.132	1.041	1.00	0.00	H
	ATOM	197	1HA	GLY A	17135.976	6.905	3.134	1.00	0.00	H
	ATOM	198	2HA	GLY A	17135.289	5.453	3.846	1.00	0.00	H
25	ATOM	199	N	LEU A	18138.106	5.519	2.121	1.00	0.00	N
	ATOM	200	CA	LEU A	18139.464	4.989	2.080	1.00	0.00	C
	ATOM	201	C	LEU A	18140.482	6.077	2.411	1.00	0.00	C
	ATOM	202	O	LEU A	18140.788	6.929	1.578	1.00	0.00	O
	ATOM	203	CB	LEU A	18139.763	4.398	0.701	1.00	0.00	C

	ATOM	204	CG	LEU A	18139.023	3.098	0.381	1.00	0.00	C
	ATOM	205	CD1	LEU A	18138.916	2.902	-1.124	1.00	0.00	C
	ATOM	206	CD2	LEU A	18139.726	1.914	1.027	1.00	0.00	C
	ATOM	207	H	LEU A	18137.802	6.112	1.403	1.00	0.00	H
5	ATOM	208	HA	LEU A	18139.537	4.207	2.821	1.00	0.00	H
	ATOM	209	1HB	LEU A	18139.500	5.133	-0.046	1.00	0.00	H
	ATOM	210	2HB	LEU A	18140.824	4.207	0.636	1.00	0.00	H
	ATOM	211	HG	LEU A	18138.021	3.154	0.781	1.00	0.00	H
	ATOM	212	1HD1	LEU A	18138.964	1.848	-1.354	1.00	0.00	H
10	ATOM	213	2HD1	LEU A	18139.732	3.415	-1.612	1.00	0.00	H
	ATOM	214	3HD1	LEU A	18137.978	3.305	-1.473	1.00	0.00	H
	ATOM	215	1HD2	LEU A	18139.773	2.062	2.095	1.00	0.00	H
	ATOM	216	2HD2	LEU A	18140.726	1.828	0.630	1.00	0.00	H
	ATOM	217	3HD2	LEU A	18139.175	1.009	0.813	1.00	0.00	H
15	ATOM	218	N	GLU A	19141.003	6.039	3.633	1.00	0.00	N
	ATOM	219	CA	GLU A	19141.987	7.021	4.076	1.00	0.00	C
	ATOM	220	C	GLU A	19143.003	6.385	5.019	1.00	0.00	C
	ATOM	221	O	GLU A	19142.915	5.198	5.333	1.00	0.00	O
	ATOM	222	CB	GLU A	19141.291	8.193	4.771	1.00	0.00	C
20	ATOM	223	CG	GLU A	19140.354	7.767	5.889	1.00	0.00	C
	ATOM	224	CD	GLU A	19139.186	8.717	6.064	1.00	0.00	C
	ATOM	225	OE1	GLU A	19138.168	8.543	5.361	1.00	0.00	O
	ATOM	226	OE2	GLU A	19139.287	9.634	6.905	1.00	0.00	O
	ATOM	227	H	GLU A	19140.719	5.335	4.253	1.00	0.00	H
25	ATOM	228	HA	GLU A	19142.504	7.388	3.202	1.00	0.00	H
	ATOM	229	1HB	GLU A	19142.043	8.845	5.190	1.00	0.00	H
	ATOM	230	2HB	GLU A	19140.717	8.741	4.040	1.00	0.00	H
	ATOM	231	1HG	GLU A	19139.968	6.784	5.664	1.00	0.00	H
	ATOM	232	2HG	GLU A	19140.911	7.730	6.814	1.00	0.00	H



	ATOM	233	N	VAL A	20143.968	7.183	5.466	1.00	0.00	N
	ATOM	234	CA	VAL A	20145.001	6.699	6.374	1.00	0.00	C
	ATOM	235	C	VAL A	20144.390	6.120	7.646	1.00	0.00	C
	ATOM	236	O	VAL A	20143.480	6.706	8.230	1.00	0.00	O
5	ATOM	237	CB	VAL A	20145.985	7.822	6.754	1.00	0.00	C
	ATOM	238	CG1	VAL A	20147.147	7.267	7.563	1.00	0.00	C
	ATOM	239	CG2	VAL A	20146.487	8.537	5.508	1.00	0.00	C
	ATOM	240	H	VAL A	20143.984	8.120	5.180	1.00	0.00	H
	ATOM	241	HA	VAL A	20145.554	5.922	5.865	1.00	0.00	H
10	ATOM	242	HB	VAL A	20145.460	8.540	7.368	1.00	0.00	H
	ATOM	243	1HG1	VAL A	20147.999	7.923	7.468	1.00	0.00	H
	ATOM	244	2HG1	VAL A	20147.406	6.286	7.194	1.00	0.00	H
	ATOM	245	3HG1	VAL A	20146.861	7.195	8.602	1.00	0.00	H
	ATOM	246	1HG2	VAL A	20146.440	7.864	4.665	1.00	0.00	H
15	ATOM	247	2HG2	VAL A	20147.508	8.853	5.661	1.00	0.00	H
	ATOM	248	3HG2	VAL A	20145.868	9.401	5.315	1.00	0.00	H
	ATOM	249	N	GLY A	21144.897	4.967	8.068	1.00	0.00	N
	ATOM	250	CA	GLY A	21144.389	4.329	9.267	1.00	0.00	C
	ATOM	251	C	GLY A	21143.329	3.289	8.967	1.00	0.00	C
20	ATOM	252	O	GLY A	21143.299	2.225	9.586	1.00	0.00	O
	ATOM	253	H	GLY A	21145.624	4.546	7.561	1.00	0.00	H
	ATOM	254	1HA	GLY A	21145.208	3.852	9.784	1.00	0.00	H
	ATOM	255	2HA	GLY A	21143.963	5.084	9.912	1.00	0.00	H
	ATOM	256	N	SER A	22142.455	3.595	8.013	1.00	0.00	N
25	ATOM	257	CA	SER A	22141.387	2.679	7.631	1.00	0.00	C
	ATOM	258	C	SER A	22141.933	1.524	6.796	1.00	0.00	C
	ATOM	259	O	SER A	22142.942	1.668	6.106	1.00	0.00	O
	ATOM	260	CB	SER A	22140.304	3.423	6.847	1.00	0.00	C
	ATOM	261	OG	SER A	22140.042	4.693	7.418	1.00	0.00	O

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	ATOM	262	H	SER A	22142.530	4.459	7.555	1.00	0.00	H
	ATOM	263	HA	SER A	22140.953	2.280	8.535	1.00	0.00	H
	ATOM	264	1HB	SER A	22140.632	3.561	5.828	1.00	0.00	H
	ATOM	265	2HB	SER A	22139.393	2.842	6.856	1.00	0.00	H
5	ATOM	266	HG	SER A	22139.251	5.065	7.021	1.00	0.00	H
	ATOM	267	N	LEU A	23141.259	0.381	6.865	1.00	0.00	N
	ATOM	268	CA	LEU A	23141.677	-0.798	6.116	1.00	0.00	C
	ATOM	269	C	LEU A	23141.131	-0.761	4.693	1.00	0.00	C
	ATOM	270	O	LEU A	23140.073	-0.186	4.438	1.00	0.00	O
10	ATOM	271	CB	LEU A	23141.206	-2.070	6.824	1.00	0.00	C
	ATOM	272	CG	LEU A	23141.688	-2.224	8.267	1.00	0.00	C
	ATOM	273	CD1	LEU A	23140.698	-3.049	9.075	1.00	0.00	C
	ATOM	274	CD2	LEU A	23143.069	-2.862	8.302	1.00	0.00	C
	ATOM	275	H	LEU A	23140.463	0.329	7.434	1.00	0.00	H
15	ATOM	276	HA	LEU A	23142.756	-0.799	6.074	1.00	0.00	H
	ATOM	277	1HB	LEU A	23140.126	-2.077	6.823	1.00	0.00	H
	ATOM	278	2HB	LEU A	23141.555	-2.921	6.259	1.00	0.00	H
	ATOM	279	HG	LEU A	23141.758	-1.248	8.722	1.00	0.00	H
	ATOM	280	1HD1	LEU A	23140.860	-4.098	8.880	1.00	0.00	H
20	ATOM	281	2HD1	LEU A	23139.691	-2.781	8.791	1.00	0.00	H
	ATOM	282	3HD1	LEU A	23140.840	-2.852	10.127	1.00	0.00	H
	ATOM	283	1HD2	LEU A	23143.649	-2.423	9.100	1.00	0.00	H
	ATOM	284	2HD2	LEU A	23143.568	-2.691	7.359	1.00	0.00	H
	ATOM	285	3HD2	LEU A	23142.970	-3.924	8.469	1.00	0.00	H
25	ATOM	286	N	ALA A	24141.859	-1.379	3.768	1.00	0.00	N
	ATOM	287	CA	ALA A	24141.447	-1.417	2.370	1.00	0.00	C
	ATOM	288	C	ALA A	24141.974	-2.668	1.676	1.00	0.00	C
	ATOM	289	O	ALA A	24142.870	-3.341	2.186	1.00	0.00	O
	ATOM	290	CB	ALA A	24141.925	-0.168	1.646	1.00	0.00	C

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	ATOM	291	H	ALA A	24142.693	-1.820	4.032	1.00	0.00	H
	ATOM	292	HA	ALA A	24140.367	-1.430	2.341	1.00	0.00	H
	ATOM	293	1HB	ALA A	24141.383	-0.061	0.718	1.00	0.00	H
	ATOM	294	2HB	ALA A	24142.981	-0.255	1.439	1.00	0.00	H
5	ATOM	295	3HB	ALA A	24141.749	0.698	2.267	1.00	0.00	H
	ATOM	296	N	GLU A	25141.413	-2.975	0.511	1.00	0.00	N
	ATOM	297	CA	GLU A	25141.827	-4.145	-0.252	1.00	0.00	C
	ATOM	298	C	GLU A	25142.061	-3.785	-1.716	1.00	0.00	C
	ATOM	299	O	GLU A	25141.346	-2.961	-2.285	1.00	0.00	O
10	ATOM	300	CB	GLU A	25140.773	-5.248	-0.147	1.00	0.00	C
	ATOM	301	CG	GLU A	25141.270	-6.611	-0.600	1.00	0.00	C
	ATOM	302	CD	GLU A	25140.237	-7.371	-1.407	1.00	0.00	C
	ATOM	303	OE1	GLU A	25139.590	-8.277	-0.841	1.00	0.00	O
	ATOM	304	OE2	GLU A	25140.072	-7.060	-2.605	1.00	0.00	O
15	ATOM	305	H	GLU A	25140.703	-2.399	0.156	1.00	0.00	H
	ATOM	306	HA	GLU A	25142.754	-4.505	0.169	1.00	0.00	H
	ATOM	307	1HB	GLU A	25140.453	-5.328	0.880	1.00	0.00	H
	ATOM	308	2HB	GLU A	25139.924	-4.978	-0.760	1.00	0.00	H
	ATOM	309	1HG	GLU A	25142.151	-6.474	-1.210	1.00	0.00	H
20	ATOM	310	2HG	GLU A	25141.525	-7.194	0.273	1.00	0.00	H
	ATOM	311	N	VAL A	26143.066	-4.410	-2.321	1.00	0.00	N
	ATOM	312	CA	VAL A	26143.394	-4.156	-3.718	1.00	0.00	C
	ATOM	313	C	VAL A	26142.998	-5.336	-4.599	1.00	0.00	C
	ATOM	314	O	VAL A	26143.026	-6.486	-4.161	1.00	0.00	O
25	ATOM	315	CB	VAL A	26144.898	-3.876	-3.901	1.00	0.00	C
	ATOM	316	CG1	VAL A	26145.188	-3.419	-5.322	1.00	0.00	C
	ATOM	317	CG2	VAL A	26145.374	-2.841	-2.892	1.00	0.00	C
	ATOM	318	H	VAL A	26143.601	-5.057	-1.815	1.00	0.00	H
	ATOM	319	HA	VAL A	26142.845	-3.282	-4.036	1.00	0.00	H

	ATOM	320	HB	VAL	A	26145.438	-4.794	-3.724	1.00	0.00	H
	ATOM	321	1HG1	VAL	A	26144.303	-2.967	-5.743	1.00	0.00	H
	ATOM	322	2HG1	VAL	A	26145.477	-4.270	-5.921	1.00	0.00	H
	ATOM	323	3HG1	VAL	A	26145.990	-2.697	-5.311	1.00	0.00	H
5	ATOM	324	1HG2	VAL	A	26145.426	-3.291	-1.912	1.00	0.00	H
	ATOM	325	2HG2	VAL	A	26144.682	-2.013	-2.872	1.00	0.00	H
	ATOM	326	3HG2	VAL	A	26146.354	-2.485	-3.177	1.00	0.00	H
	ATOM	327	N	LYS	A	27142.631	-5.043	-5.842	1.00	0.00	N
	ATOM	328	CA	LYS	A	27142.230	-6.080	-6.785	1.00	0.00	C
10	ATOM	329	C	LYS	A	27143.429	-6.587	-7.579	1.00	0.00	C
	ATOM	330	O	LYS	A	27143.642	-6.187	-8.723	1.00	0.00	O
	ATOM	331	CB	LYS	A	27141.161	-5.544	-7.739	1.00	0.00	C
	ATOM	332	CG	LYS	A	27139.740	-5.743	-7.235	1.00	0.00	C
	ATOM	333	CD	LYS	A	27139.084	-6.954	-7.879	1.00	0.00	C
15	ATOM	334	CE	LYS	A	27139.179	-8.181	-6.985	1.00	0.00	C
	ATOM	335	NZ	LYS	A	27139.457	-9.418	-7.765	1.00	0.00	N
	ATOM	336	H	LYS	A	27142.630	-4.106	-6.132	1.00	0.00	H
	ATOM	337	HA	LYS	A	27141.815	-6.900	-6.219	1.00	0.00	H
	ATOM	338	1HB	LYS	A	27141.323	-4.487	-7.886	1.00	0.00	H
20	ATOM	339	2HB	LYS	A	27141.257	-6.049	-8.689	1.00	0.00	H
	ATOM	340	1HG	LYS	A	27139.765	-5.886	-6.166	1.00	0.00	H
	ATOM	341	2HG	LYS	A	27139.159	-4.863	-7.470	1.00	0.00	H
	ATOM	342	1HD	LYS	A	27138.044	-6.734	-8.061	1.00	0.00	H
	ATOM	343	2HD	LYS	A	27139.579	-7.164	-8.816	1.00	0.00	H
25	ATOM	344	1HE	LYS	A	27139.976	-8.030	-6.272	1.00	0.00	H
	ATOM	345	2HE	LYS	A	27138.244	-8.299	-6.459	1.00	0.00	H
	ATOM	346	1HZ	LYS	A	27138.945	-10.223	-7.353	1.00	0.00	H
	ATOM	347	2HZ	LYS	A	27140.475	-9.627	-7.756	1.00	0.00	H
	ATOM	348	3HZ	LYS	A	27139.150	-9.294	-8.752	1.00	0.00	H

	ATOM	349	N	GLU A	28144.209	-7.469	-6.964	1.00	0.00	N
	ATOM	350	CA	GLU A	28145.388	-8.032	-7.613	1.00	0.00	C
	ATOM	351	C	GLU A	28145.339	-9.556	-7.602	1.00	0.00	C
	ATOM	352	O	GLU A	28144.374	-10.153	-7.126	1.00	0.00	O
5	ATOM	353	CB	GLU A	28146.661	-7.544	-6.918	1.00	0.00	C
	ATOM	354	CG	GLU A	28147.726	-7.045	-7.879	1.00	0.00	C
	ATOM	355	CD	GLU A	28148.621	-5.987	-7.262	1.00	0.00	C
	ATOM	356	OE1	GLU A	28148.123	-4.875	-6.987	1.00	0.00	O
	ATOM	357	OE2	GLU A	28149.819	-6.271	-7.052	1.00	0.00	O
10	ATOM	358	H	GLU A	28143.987	-7.749	-6.051	1.00	0.00	H
	ATOM	359	HA	GLU A	28145.396	-7.691	-8.638	1.00	0.00	H
	ATOM	360	1HB	GLU A	28146.405	-6.736	-6.249	1.00	0.00	H
	ATOM	361	2HB	GLU A	28147.079	-8.356	-6.341	1.00	0.00	H
	ATOM	362	1HG	GLU A	28148.340	-7.880	-8.183	1.00	0.00	H
15	ATOM	363	2HG	GLU A	28147.241	-6.623	-8.748	1.00	0.00	H
	ATOM	364	N	ASN A	29146.388	-10.180	-8.131	1.00	0.00	N
	ATOM	365	CA	ASN A	29146.464	-11.635	-8.182	1.00	0.00	C
	ATOM	366	C	ASN A	29146.473	-12.229	-6.774	1.00	0.00	C
	ATOM	367	O	ASN A	29145.597	-13.017	-6.419	1.00	0.00	O
20	ATOM	368	CB	ASN A	29147.717	-12.075	-8.943	1.00	0.00	C
	ATOM	369	CG	ASN A	29147.423	-12.410	-10.393	1.00	0.00	C
	ATOM	370	OD1	ASN A	29147.664	-13.530	-10.844	1.00	0.00	O
	ATOM	371	ND2	ASN A	29146.902	-11.437	-11.130	1.00	0.00	N
	ATOM	372	H	ASN A	29147.126	-9.650	-8.495	1.00	0.00	H
25	ATOM	373	HA	ASN A	29145.590	-11.995	-8.705	1.00	0.00	H
	ATOM	374	1HB	ASN A	29148.444	-11.278	-8.918	1.00	0.00	H
	ATOM	375	2HB	ASN A	29148.132	-12.951	-8.467	1.00	0.00	H
	ATOM	376	1HD2	ASN A	29146.737	-10.570	-10.704	1.00	0.00	H
	ATOM	377	2HD2	ASN A	29146.701	-11.625	-12.071	1.00	0.00	H

	ATOM	378	N	PRO A	30147.468	-11.853	-5.951	1.00	0.00	N
	ATOM	379	CA	PRO A	30147.587	-12.350	-4.578	1.00	0.00	C
	ATOM	380	C	PRO A	30146.604	-11.669	-3.628	1.00	0.00	C
	ATOM	381	O	PRO A	30146.755	-10.489	-3.310	1.00	0.00	O
5	ATOM	382	CB	PRO A	30149.025	-11.990	-4.206	1.00	0.00	C
	ATOM	383	CG	PRO A	30149.325	-10.773	-5.008	1.00	0.00	C
	ATOM	384	CD	PRO A	30148.555	-10.915	-6.295	1.00	0.00	C
	ATOM	385	HA	PRO A	30147.456	-13.420	-4.531	1.00	0.00	H
	ATOM	386	1HB	PRO A	30149.086	-11.793	-3.146	1.00	0.00	H
10	ATOM	387	2HB	PRO A	30149.682	-12.806	-4.465	1.00	0.00	H
	ATOM	388	1HG	PRO A	30149.001	-9.892	-4.474	1.00	0.00	H
	ATOM	389	2HG	PRO A	30150.385	-10.720	-5.212	1.00	0.00	H
	ATOM	390	1HD	PRO A	30148.156	-9.960	-6.602	1.00	0.00	H
	ATOM	391	2HD	PRO A	30149.186	-11.325	-7.069	1.00	0.00	H
15	ATOM	392	N	PRO A	31145.579	-12.403	-3.156	1.00	0.00	N
	ATOM	393	CA	PRO A	31144.575	-11.854	-2.239	1.00	0.00	C
	ATOM	394	C	PRO A	31145.149	-11.573	-0.854	1.00	0.00	C
	ATOM	395	O	PRO A	31145.083	-12.418	0.038	1.00	0.00	O
	ATOM	396	CB	PRO A	31143.517	-12.957	-2.165	1.00	0.00	C
20	ATOM	397	CG	PRO A	31144.253	-14.209	-2.491	1.00	0.00	C
	ATOM	398	CD	PRO A	31145.317	-13.819	-3.478	1.00	0.00	C
	ATOM	399	HA	PRO A	31144.132	-10.951	-2.633	1.00	0.00	H
	ATOM	400	1HB	PRO A	31143.097	-12.991	-1.170	1.00	0.00	H
	ATOM	401	2HB	PRO A	31142.737	-12.761	-2.885	1.00	0.00	H
25	ATOM	402	1HG	PRO A	31144.703	-14.614	-1.596	1.00	0.00	H
	ATOM	403	2HG	PRO A	31143.580	-14.929	-2.931	1.00	0.00	H
	ATOM	404	1HD	PRO A	31146.205	-14.418	-3.334	1.00	0.00	H
	ATOM	405	2HD	PRO A	31144.950	-13.923	-4.488	1.00	0.00	H
	ATOM	406	N	PHE A	32145.712	-10.382	-0.683	1.00	0.00	N

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	ATOM	407	CA	PHE A	32146.298	-9.990	0.593	1.00	0.00	C
	ATOM	408	C	PHE A	32145.431	-8.947	1.292	1.00	0.00	C
	ATOM	409	O	PHE A	32144.494	-8.408	0.703	1.00	0.00	O
	ATOM	410	CB	PHE A	32147.709	-9.437	0.382	1.00	0.00	C
5	ATOM	411	CG	PHE A	32147.801	-8.437	-0.735	1.00	0.00	C
	ATOM	412	CD1	PHE A	32148.541	-8.716	-1.873	1.00	0.00	C
	ATOM	413	CD2	PHE A	32147.149	-7.218	-0.646	1.00	0.00	C
	ATOM	414	CE1	PHE A	32148.628	-7.799	-2.902	1.00	0.00	C
	ATOM	415	CE2	PHE A	32147.233	-6.295	-1.672	1.00	0.00	C
10	ATOM	416	CZ	PHE A	32147.973	-6.586	-2.801	1.00	0.00	C
	ATOM	417	H	PHE A	32145.734	-9.751	-1.433	1.00	0.00	H
	ATOM	418	HA	PHE A	32146.355	-10.870	1.216	1.00	0.00	H
	ATOM	419	1HB	PHE A	32148.038	-8.952	1.289	1.00	0.00	H
	ATOM	420	2HB	PHE A	32148.377	-10.254	0.155	1.00	0.00	H
15	ATOM	421	HD1	PHE A	32149.052	-9.664	-1.952	1.00	0.00	H
	ATOM	422	HD2	PHE A	32146.571	-6.989	0.237	1.00	0.00	H
	ATOM	423	HE1	PHE A	32149.208	-8.027	-3.784	1.00	0.00	H
	ATOM	424	HE2	PHE A	32146.719	-5.348	-1.590	1.00	0.00	H
	ATOM	425	HZ	PHE A	32148.039	-5.867	-3.604	1.00	0.00	H
20	ATOM	426	N	TYR A	33145.750	-8.668	2.552	1.00	0.00	N
	ATOM	427	CA	TYR A	33145.000	-7.690	3.332	1.00	0.00	C
	ATOM	428	C	TYR A	33145.940	-6.694	4.004	1.00	0.00	C
	ATOM	429	O	TYR A	33146.852	-7.081	4.734	1.00	0.00	O
	ATOM	430	CB	TYR A	33144.147	-8.395	4.388	1.00	0.00	C
25	ATOM	431	CG	TYR A	33142.780	-8.803	3.888	1.00	0.00	C
	ATOM	432	CD1	TYR A	33141.996	-7.922	3.154	1.00	0.00	C
	ATOM	433	CD2	TYR A	33142.273	-10.070	4.151	1.00	0.00	C
	ATOM	434	CE1	TYR A	33140.746	-8.291	2.696	1.00	0.00	C
	ATOM	435	CE2	TYR A	33141.023	-10.447	3.696	1.00	0.00	C

	ATOM	436	CZ	TYR A	33140.264	-9.554	2.970	1.00	0.00	C
	ATOM	437	OH	TYR A	33139.019	-9.926	2.514	1.00	0.00	O
	ATOM	438	H	TYR A	33146.508	-9.131	2.967	1.00	0.00	H
	ATOM	439	HA	TYR A	33144.351	-7.155	2.655	1.00	0.00	H
5	ATOM	440	1HB	TYR A	33144.659	-9.288	4.717	1.00	0.00	H
	ATOM	441	2HB	TYR A	33144.010	-7.734	5.230	1.00	0.00	H
	ATOM	442	HD1	TYR A	33142.376	-6.934	2.941	1.00	0.00	H
	ATOM	443	HD2	TYR A	33142.869	-10.766	4.721	1.00	0.00	H
	ATOM	444	HE1	TYR A	33140.152	-7.592	2.126	1.00	0.00	H
10	ATOM	445	HE2	TYR A	33140.646	-11.436	3.910	1.00	0.00	H
	ATOM	446	HH	TYR A	33139.088	-10.756	2.037	1.00	0.00	H
	ATOM	447	N	GLY A	34145.710	-5.410	3.751	1.00	0.00	N
	ATOM	448	CA	GLY A	34146.544	-4.378	4.337	1.00	0.00	C
	ATOM	449	C	GLY A	34145.757	-3.138	4.711	1.00	0.00	C
15	ATOM	450	O	GLY A	34144.578	-3.019	4.378	1.00	0.00	O
	ATOM	451	H	GLY A	34144.969	-5.161	3.160	1.00	0.00	H
	ATOM	452	1HA	GLY A	34147.016	-4.774	5.225	1.00	0.00	H
	ATOM	453	2HA	GLY A	34147.312	-4.103	3.628	1.00	0.00	H
	ATOM	454	N	VAL A	35146.409	-2.212	5.406	1.00	0.00	N
20	ATOM	455	CA	VAL A	35145.764	-0.974	5.827	1.00	0.00	C
	ATOM	456	C	VAL A	35146.453	0.240	5.212	1.00	0.00	C
	ATOM	457	O	VAL A	35147.668	0.241	5.013	1.00	0.00	O
	ATOM	458	CB	VAL A	35145.763	-0.835	7.362	1.00	0.00	C
	ATOM	459	CG1	VAL A	35147.187	-0.811	7.901	1.00	0.00	C
25	ATOM	460	CG2	VAL A	35145.001	0.411	7.788	1.00	0.00	C
	ATOM	461	H	VAL A	35147.348	-2.365	5.642	1.00	0.00	H
	ATOM	462	HA	VAL A	35144.738	-1.002	5.489	1.00	0.00	H
	ATOM	463	HB	VAL A	35145.262	-1.697	7.781	1.00	0.00	H
	ATOM	464	1HG1	VAL A	35147.865	-0.519	7.113	1.00	0.00	H



	ATOM	465	2HG1	VAL	A	35147.453	-1.795	8.258	1.00	0.00	H
	ATOM	466	3HG1	VAL	A	35147.252	-0.103	8.714	1.00	0.00	H
	ATOM	467	1HG2	VAL	A	35145.141	0.574	8.847	1.00	0.00	H
	ATOM	468	2HG2	VAL	A	35143.950	0.278	7.581	1.00	0.00	H
5	ATOM	469	3HG2	VAL	A	35145.372	1.265	7.241	1.00	0.00	H
	ATOM	470	N	ILE	A	36145.670	1.271	4.913	1.00	0.00	N
	ATOM	471	CA	ILE	A	36146.207	2.491	4.322	1.00	0.00	C
	ATOM	472	C	ILE	A	36147.127	3.214	5.300	1.00	0.00	C
	ATOM	473	O	ILE	A	36146.803	3.363	6.478	1.00	0.00	O
10	ATOM	474	CB	ILE	A	36145.080	3.449	3.888	1.00	0.00	C
	ATOM	475	CG1	ILE	A	36144.064	2.715	3.011	1.00	0.00	C
	ATOM	476	CG2	ILE	A	36145.658	4.648	3.147	1.00	0.00	C
	ATOM	477	CD1	ILE	A	36142.904	3.583	2.573	1.00	0.00	C
	ATOM	478	H	ILE	A	36144.709	1.210	5.097	1.00	0.00	H
15	ATOM	479	HA	ILE	A	36146.775	2.215	3.445	1.00	0.00	H
	ATOM	480	HB	ILE	A	36144.584	3.811	4.775	1.00	0.00	H
	ATOM	481	1HG1	ILE	A	36144.560	2.354	2.122	1.00	0.00	H
	ATOM	482	2HG1	ILE	A	36143.663	1.876	3.560	1.00	0.00	H
	ATOM	483	1HG2	ILE	A	36146.620	4.385	2.734	1.00	0.00	H
20	ATOM	484	2HG2	ILE	A	36145.776	5.472	3.835	1.00	0.00	H
	ATOM	485	3HG2	ILE	A	36144.989	4.936	2.351	1.00	0.00	H
	ATOM	486	1HD1	ILE	A	36142.384	3.954	3.443	1.00	0.00	H
	ATOM	487	2HD1	ILE	A	36142.225	2.999	1.970	1.00	0.00	H
	ATOM	488	3HD1	ILE	A	36143.276	4.415	1.994	1.00	0.00	H
25	ATOM	489	N	ARG	A	37148.276	3.661	4.804	1.00	0.00	N
	ATOM	490	CA	ARG	A	37149.245	4.367	5.633	1.00	0.00	C
	ATOM	491	C	ARG	A	37149.477	5.782	5.116	1.00	0.00	C
	ATOM	492	O	ARG	A	37149.185	6.761	5.804	1.00	0.00	O
	ATOM	493	CB	ARG	A	37150.569	3.602	5.672	1.00	0.00	C

	ATOM	494	CG	ARG A	37150.404	2.115	5.937	1.00	0.00	C
	ATOM	495	CD	ARG A	37150.291	1.823	7.424	1.00	0.00	C
	ATOM	496	NE	ARG A	37149.079	2.397	8.006	1.00	0.00	N
	ATOM	497	CZ	ARG A	37148.908	2.602	9.309	1.00	0.00	C
5	ATOM	498	NH1	ARG A	37149.866	2.280	10.170	1.00	0.00	N
	ATOM	499	NH2	ARG A	37147.775	3.129	9.754	1.00	0.00	N
	ATOM	500	H	ARG A	37148.478	3.510	3.857	1.00	0.00	H
	ATOM	501	HA	ARG A	37148.844	4.424	6.635	1.00	0.00	H
	ATOM	502	1HB	ARG A	37151.068	3.724	4.723	1.00	0.00	H
10	ATOM	503	2HB	ARG A	37151.188	4.018	6.452	1.00	0.00	H
	ATOM	504	1HG	ARG A	37149.508	1.768	5.443	1.00	0.00	H
	ATOM	505	2HG	ARG A	37151.261	1.592	5.540	1.00	0.00	H
	ATOM	506	1HD	ARG A	37150.274	0.753	7.568	1.00	0.00	H
	ATOM	507	2HD	ARG A	37151.152	2.240	7.926	1.00	0.00	H
15	ATOM	508	HE	ARG A	37148.356	2.643	7.392	1.00	0.00	H
	ATOM	509	1HH1	ARG A	37150.722	1.882	9.843	1.00	0.00	H
	ATOM	510	2HH1	ARG A	37149.730	2.437	11.149	1.00	0.00	H
	ATOM	511	1HH2	ARG A	37147.050	3.372	9.109	1.00	0.00	H
	ATOM	512	2HH2	ARG A	37147.646	3.282	10.734	1.00	0.00	H
20	ATOM	513	N	TRP A	38150.004	5.886	3.900	1.00	0.00	N
	ATOM	514	CA	TRP A	38150.274	7.185	3.294	1.00	0.00	C
	ATOM	515	C	TRP A	38149.557	7.323	1.954	1.00	0.00	C
	ATOM	516	O	TRP A	38149.618	6.430	1.110	1.00	0.00	O
	ATOM	517	CB	TRP A	38151.783	7.382	3.104	1.00	0.00	C
25	ATOM	518	CG	TRP A	38152.128	8.579	2.267	1.00	0.00	C
	ATOM	519	CD1	TRP A	38152.387	9.844	2.710	1.00	0.00	C
	ATOM	520	CD2	TRP A	38152.247	8.620	0.840	1.00	0.00	C
	ATOM	521	NE1	TRP A	38152.659	10.670	1.646	1.00	0.00	N
	ATOM	522	CE2	TRP A	38152.579	9.941	0.486	1.00	0.00	C

	ATOM	523	CE3	TRP	A	38152.104	7.668	-0.174	1.00	0.00	C
	ATOM	524	CZ2	TRP	A	38152.771	10.333	-0.836	1.00	0.00	C
	ATOM	525	CZ3	TRP	A	38152.296	8.057	-1.486	1.00	0.00	C
	ATOM	526	CH2	TRP	A	38152.625	9.380	-1.807	1.00	0.00	C
5	ATOM	527	H	TRP	A	38150.216	5.071	3.400	1.00	0.00	H
	ATOM	528	HA	TRP	A	38149.904	7.945	3.964	1.00	0.00	H
	ATOM	529	1HB	TRP	A	38152.247	7.508	4.071	1.00	0.00	H
	ATOM	530	2HB	TRP	A	38152.195	6.507	2.623	1.00	0.00	H
	ATOM	531	HD1	TRP	A	38152.376	10.139	3.748	1.00	0.00	H
10	ATOM	532	HE1	TRP	A	38152.875	11.623	1.706	1.00	0.00	H
	ATOM	533	HE3	TRP	A	38151.850	6.644	0.055	1.00	0.00	H
	ATOM	534	HZ2	TRP	A	38153.022	11.349	-1.102	1.00	0.00	H
	ATOM	535	HZ3	TRP	A	38152.189	7.335	-2.281	1.00	0.00	H
	ATOM	536	HH2	TRP	A	38152.765	9.638	-2.847	1.00	0.00	H
15	ATOM	537	N	ILE	A	39148.889	8.456	1.765	1.00	0.00	N
	ATOM	538	CA	ILE	A	39148.169	8.727	0.528	1.00	0.00	C
	ATOM	539	C	ILE	A	39148.631	10.044	-0.083	1.00	0.00	C
	ATOM	540	O	ILE	A	39148.297	11.119	0.414	1.00	0.00	O
	ATOM	541	CB	ILE	A	39146.647	8.785	0.762	1.00	0.00	C
20	ATOM	542	CG1	ILE	A	39146.181	7.562	1.554	1.00	0.00	C
	ATOM	543	CG2	ILE	A	39145.911	8.876	-0.567	1.00	0.00	C
	ATOM	544	CD1	ILE	A	39144.818	7.736	2.187	1.00	0.00	C
	ATOM	545	H	ILE	A	39148.887	9.132	2.475	1.00	0.00	H
	ATOM	546	HA	ILE	A	39148.378	7.924	-0.165	1.00	0.00	H
25	ATOM	547	HB	ILE	A	39146.427	9.678	1.328	1.00	0.00	H
	ATOM	548	1HG1	ILE	A	39146.134	6.710	0.893	1.00	0.00	H
	ATOM	549	2HG1	ILE	A	39146.891	7.360	2.342	1.00	0.00	H
	ATOM	550	1HG2	ILE	A	39146.058	9.857	-0.994	1.00	0.00	H
	ATOM	551	2HG2	ILE	A	39144.856	8.708	-0.405	1.00	0.00	H

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	ATOM	552	3HG2	ILE A	39146.295	8.127	-1.243	1.00	0.00	H
	ATOM	553	1HD1	ILE A	39144.725	8.742	2.569	1.00	0.00	H
	ATOM	554	2HD1	ILE A	39144.706	7.032	2.998	1.00	0.00	H
	ATOM	555	3HD1	ILE A	39144.052	7.559	1.446	1.00	0.00	H
5	ATOM	556	N	GLY A	40149.407	9.955	-1.159	1.00	0.00	N
	ATOM	557	CA	GLY A	40149.906	11.152	-1.808	1.00	0.00	C
	ATOM	558	C	GLY A	40150.448	10.884	-3.197	1.00	0.00	C
	ATOM	559	O	GLY A	40150.274	9.794	-3.742	1.00	0.00	O
	ATOM	560	H	GLY A	40149.646	9.072	-1.510	1.00	0.00	H
10	ATOM	561	1HA	GLY A	40149.104	11.870	-1.880	1.00	0.00	H
	ATOM	562	2HA	GLY A	40150.693	11.572	-1.202	1.00	0.00	H
	ATOM	563	N	GLN A	41151.109	11.884	-3.769	1.00	0.00	N
	ATOM	564	CA	GLN A	41151.683	11.763	-5.103	1.00	0.00	C
	ATOM	565	C	GLN A	41153.162	12.148	-5.090	1.00	0.00	C
15	ATOM	566	O	GLN A	41153.506	13.302	-4.830	1.00	0.00	O
	ATOM	567	CB	GLN A	41150.919	12.654	-6.082	1.00	0.00	C
	ATOM	568	CG	GLN A	41149.411	12.488	-6.004	1.00	0.00	C
	ATOM	569	CD	GLN A	41148.672	13.804	-6.138	1.00	0.00	C
	ATOM	570	OE1	GLN A	41148.635	14.607	-5.206	1.00	0.00	O
20	ATOM	571	NE2	GLN A	41148.077	14.033	-7.304	1.00	0.00	N
	ATOM	572	H	GLN A	41151.213	12.728	-3.282	1.00	0.00	H
	ATOM	573	HA	GLN A	41151.588	10.735	-5.415	1.00	0.00	H
	ATOM	574	1HB	GLN A	41151.157	13.685	-5.871	1.00	0.00	H
	ATOM	575	2HB	GLN A	41151.235	12.418	-7.086	1.00	0.00	H
25	ATOM	576	1HG	GLN A	41149.090	11.832	-6.799	1.00	0.00	H
	ATOM	577	2HG	GLN A	41149.158	12.046	-5.051	1.00	0.00	H
	ATOM	578	1HE2	GLN A	41148.148	13.349	-8.000	1.00	0.00	H
	ATOM	579	2HE2	GLN A	41147.594	14.878	-7.418	1.00	0.00	H
	ATOM	580	N	PRO A	42154.062	11.187	-5.368	1.00	0.00	N

	ATOM	581	CA	PRO A	42155.507	11.441	-5.381	1.00	0.00	C
	ATOM	582	C	PRO A	42155.892	12.546	-6.360	1.00	0.00	C
	ATOM	583	O	PRO A	42155.139	12.859	-7.283	1.00	0.00	O
	ATOM	584	CB	PRO A	42156.107	10.102	-5.822	1.00	0.00	C
5	ATOM	585	CG	PRO A	42155.065	9.090	-5.491	1.00	0.00	C
	ATOM	586	CD	PRO A	42153.749	9.784	-5.689	1.00	0.00	C
	ATOM	587	HA	PRO A	42155.871	11.695	-4.396	1.00	0.00	H
	ATOM	588	1HB	PRO A	42156.311	10.129	-6.882	1.00	0.00	H
	ATOM	589	2HB	PRO A	42157.022	9.918	-5.279	1.00	0.00	H
10	ATOM	590	1HG	PRO A	42155.148	8.245	-6.157	1.00	0.00	H
	ATOM	591	2HG	PRO A	42155.173	8.774	-4.464	1.00	0.00	H
	ATOM	592	1HD	PRO A	42153.419	9.686	-6.713	1.00	0.00	H
	ATOM	593	2HD	PRO A	42153.007	9.389	-5.010	1.00	0.00	H
	ATOM	594	N	PRO A	43157.076	13.153	-6.172	1.00	0.00	N
15	ATOM	595	CA	PRO A	43157.559	14.227	-7.043	1.00	0.00	C
	ATOM	596	C	PRO A	43157.974	13.715	-8.417	1.00	0.00	C
	ATOM	597	O	PRO A	43159.140	13.389	-8.642	1.00	0.00	O
	ATOM	598	CB	PRO A	43158.771	14.776	-6.291	1.00	0.00	C
	ATOM	599	CG	PRO A	43159.256	13.633	-5.468	1.00	0.00	C
20	ATOM	600	CD	PRO A	43158.034	12.839	-5.096	1.00	0.00	C
	ATOM	601	HA	PRO A	43156.820	15.006	-7.159	1.00	0.00	H
	ATOM	602	1HB	PRO A	43159.519	15.100	-7.000	1.00	0.00	H
	ATOM	603	2HB	PRO A	43158.469	15.608	-5.673	1.00	0.00	H
	ATOM	604	1HG	PRO A	43159.935	13.027	-6.048	1.00	0.00	H
25	ATOM	605	2HG	PRO A	43159.747	14.004	-4.580	1.00	0.00	H
	ATOM	606	1HD	PRO A	43158.262	11.783	-5.079	1.00	0.00	H
	ATOM	607	2HD	PRO A	43157.654	13.158	-4.137	1.00	0.00	H
	ATOM	608	N	GLY A	44157.015	13.646	-9.332	1.00	0.00	N
	ATOM	609	CA	GLY A	44157.304	13.172	-10.672	1.00	0.00	C

	ATOM	610	C	GLY A	44156.071	12.647	-11.380	1.00	0.00	C
	ATOM	611	O	GLY A	44155.783	13.041	-12.510	1.00	0.00	O
	ATOM	612	H	GLY A	44156.104	13.919	-9.097	1.00	0.00	H
	ATOM	613	1HA	GLY A	44157.716	13.985	-11.248	1.00	0.00	H
5	ATOM	614	2HA	GLY A	44158.035	12.380	-10.612	1.00	0.00	H
	ATOM	615	N	LEU A	45155.344	11.756	-10.716	1.00	0.00	N
	ATOM	616	CA	LEU A	45154.136	11.177	-11.291	1.00	0.00	C
	ATOM	617	C	LEU A	45152.926	11.462	-10.410	1.00	0.00	C
	ATOM	618	O	LEU A	45152.826	10.948	-9.296	1.00	0.00	O
10	ATOM	619	CB	LEU A	45154.307	9.668	-11.472	1.00	0.00	C
	ATOM	620	CG	LEU A	45154.840	8.927	-10.245	1.00	0.00	C
	ATOM	621	CD1	LEU A	45154.467	7.451	-10.307	1.00	0.00	C
	ATOM	622	CD2	LEU A	45156.350	9.096	-10.132	1.00	0.00	C
	ATOM	623	H	LEU A	45155.624	11.483	-9.816	1.00	0.00	H
15	ATOM	624	HA	LEU A	45153.977	11.632	-12.258	1.00	0.00	H
	ATOM	625	1HB	LEU A	45153.346	9.248	-11.733	1.00	0.00	H
	ATOM	626	2HB	LEU A	45154.989	9.500	-12.292	1.00	0.00	H
	ATOM	627	HG	LEU A	45154.389	9.345	-9.357	1.00	0.00	H
	ATOM	628	1HD1	LEU A	45153.870	7.266	-11.188	1.00	0.00	H
20	ATOM	629	2HD1	LEU A	45153.901	7.186	-9.427	1.00	0.00	H
	ATOM	630	3HD1	LEU A	45155.365	6.852	-10.350	1.00	0.00	H
	ATOM	631	1HD2	LEU A	45156.683	9.843	-10.837	1.00	0.00	H
	ATOM	632	2HD2	LEU A	45156.836	8.157	-10.349	1.00	0.00	H
	ATOM	633	3HD2	LEU A	45156.602	9.408	-9.130	1.00	0.00	H
25	ATOM	634	N	ASN A	46152.008	12.282	-10.911	1.00	0.00	N
	ATOM	635	CA	ASN A	46150.810	12.622	-10.156	1.00	0.00	C
	ATOM	636	C	ASN A	46149.846	11.443	-10.124	1.00	0.00	C
	ATOM	637	O	ASN A	46149.218	11.110	-11.130	1.00	0.00	O
	ATOM	638	CB	ASN A	46150.123	13.843	-10.773	1.00	0.00	C

	ATOM	639	CG	ASN A	46149.380	14.670	-9.743	1.00	0.00	C
	ATOM	640	OD1	ASN A	46149.955	15.100	-8.743	1.00	0.00	O
	ATOM	641	ND2	ASN A	46148.095	14.900	-9.984	1.00	0.00	N
	ATOM	642	H	ASN A	46152.139	12.664	-11.804	1.00	0.00	H
5	ATOM	643	HA	ASN A	46151.108	12.858	-9.146	1.00	0.00	H
	ATOM	644	1HB	ASN A	46150.868	14.469	-11.241	1.00	0.00	H
	ATOM	645	2HB	ASN A	46149.417	13.511	-11.519	1.00	0.00	H
	ATOM	646	1HD2	ASN A	46147.703	14.526	-10.801	1.00	0.00	H
	ATOM	647	2HD2	ASN A	46147.590	15.433	-9.335	1.00	0.00	H
10	ATOM	648	N	GLU A	47149.734	10.813	-8.961	1.00	0.00	N
	ATOM	649	CA	GLU A	47148.848	9.668	-8.790	1.00	0.00	C
	ATOM	650	C	GLU A	47148.661	9.345	-7.312	1.00	0.00	C
	ATOM	651	O	GLU A	47149.627	9.062	-6.604	1.00	0.00	O
	ATOM	652	CB	GLU A	47149.405	8.446	-9.525	1.00	0.00	C
15	ATOM	653	CG	GLU A	47150.918	8.314	-9.439	1.00	0.00	C
	ATOM	654	CD	GLU A	47151.479	7.357	-10.472	1.00	0.00	C
	ATOM	655	OE1	GLU A	47151.460	7.702	-11.672	1.00	0.00	O
	ATOM	656	OE2	GLU A	47151.937	6.263	-10.082	1.00	0.00	O
	ATOM	657	H	GLU A	47150.262	11.125	-8.197	1.00	0.00	H
20	ATOM	658	HA	GLU A	47147.889	9.926	-9.214	1.00	0.00	H
	ATOM	659	1HB	GLU A	47148.964	7.555	-9.103	1.00	0.00	H
	ATOM	660	2HB	GLU A	47149.131	8.513	-10.568	1.00	0.00	H
	ATOM	661	1HG	GLU A	47151.360	9.285	-9.592	1.00	0.00	H
	ATOM	662	2HG	GLU A	47151.180	7.952	-8.455	1.00	0.00	H
25	ATOM	663	N	VAL A	48147.416	9.382	-6.851	1.00	0.00	N
	ATOM	664	CA	VAL A	48147.116	9.085	-5.457	1.00	0.00	C
	ATOM	665	C	VAL A	48147.475	7.642	-5.124	1.00	0.00	C
	ATOM	666	O	VAL A	48146.726	6.717	-5.438	1.00	0.00	O
	ATOM	667	CB	VAL A	48145.629	9.320	-5.137	1.00	0.00	C

	ATOM	668	CG1	VAL	A	48145.378	9.198	-3.642	1.00	0.00	C
	ATOM	669	CG2	VAL	A	48145.180	10.679	-5.652	1.00	0.00	C
	ATOM	670	H	VAL	A	48146.684	9.609	-7.462	1.00	0.00	H
	ATOM	671	HA	VAL	A	48147.709	9.745	-4.840	1.00	0.00	H
5	ATOM	672	HB	VAL	A	48145.048	8.560	-5.639	1.00	0.00	H
	ATOM	673	1HG1	VAL	A	48144.420	9.634	-3.401	1.00	0.00	H
	ATOM	674	2HG1	VAL	A	48146.156	9.719	-3.103	1.00	0.00	H
	ATOM	675	3HG1	VAL	A	48145.381	8.155	-3.360	1.00	0.00	H
	ATOM	676	1HG2	VAL	A	48144.227	10.934	-5.213	1.00	0.00	H
10	ATOM	677	2HG2	VAL	A	48145.083	10.644	-6.726	1.00	0.00	H
	ATOM	678	3HG2	VAL	A	48145.912	11.426	-5.381	1.00	0.00	H
	ATOM	679	N	LEU	A	49148.629	7.455	-4.492	1.00	0.00	N
	ATOM	680	CA	LEU	A	49149.088	6.123	-4.122	1.00	0.00	C
	ATOM	681	C	LEU	A	49148.955	5.904	-2.621	1.00	0.00	C
15	ATOM	682	O	LEU	A	49149.633	6.554	-1.825	1.00	0.00	O
	ATOM	683	CB	LEU	A	49150.544	5.923	-4.550	1.00	0.00	C
	ATOM	684	CG	LEU	A	49150.801	6.069	-6.051	1.00	0.00	C
	ATOM	685	CD1	LEU	A	49152.275	6.335	-6.317	1.00	0.00	C
	ATOM	686	CD2	LEU	A	49150.342	4.822	-6.793	1.00	0.00	C
20	ATOM	687	H	LEU	A	49149.185	8.231	-4.270	1.00	0.00	H
	ATOM	688	HA	LEU	A	49148.470	5.404	-4.636	1.00	0.00	H
	ATOM	689	1HB	LEU	A	49151.153	6.649	-4.030	1.00	0.00	H
	ATOM	690	2HB	LEU	A	49150.854	4.935	-4.249	1.00	0.00	H
	ATOM	691	HG	LEU	A	49150.237	6.910	-6.427	1.00	0.00	H
25	ATOM	692	1HD1	LEU	A	49152.707	6.843	-5.468	1.00	0.00	H
	ATOM	693	2HD1	LEU	A	49152.376	6.954	-7.197	1.00	0.00	H
	ATOM	694	3HD1	LEU	A	49152.788	5.398	-6.475	1.00	0.00	H
	ATOM	695	1HD2	LEU	A	49151.185	4.165	-6.951	1.00	0.00	H
	ATOM	696	2HD2	LEU	A	49149.921	5.104	-7.746	1.00	0.00	H



	ATOM	697	3HD2	LEU A	49149.593	4.311	-6.206	1.00	0.00	H
	ATOM	698	N	ALA A	50148.077	4.984	-2.240	1.00	0.00	N
	ATOM	699	CA	ALA A	50147.856	4.682	-0.832	1.00	0.00	C
	ATOM	700	C	ALA A	50148.756	3.542	-0.369	1.00	0.00	C
5	ATOM	701	O	ALA A	50148.624	2.408	-0.830	1.00	0.00	O
	ATOM	702	CB	ALA A	50146.395	4.337	-0.589	1.00	0.00	C
	ATOM	703	H	ALA A	50147.565	4.497	-2.920	1.00	0.00	H
	ATOM	704	HA	ALA A	50148.093	5.570	-0.265	1.00	0.00	H
	ATOM	705	1HB	ALA A	50145.792	4.740	-1.389	1.00	0.00	H
10	ATOM	706	2HB	ALA A	50146.077	4.763	0.352	1.00	0.00	H
	ATOM	707	3HB	ALA A	50146.278	3.265	-0.556	1.00	0.00	H
	ATOM	708	N	GLY A	51149.671	3.850	0.545	1.00	0.00	N
	ATOM	709	CA	GLY A	51150.578	2.839	1.056	1.00	0.00	C
	ATOM	710	C	GLY A	51149.878	1.821	1.933	1.00	0.00	C
15	ATOM	711	O	GLY A	51149.350	2.162	2.991	1.00	0.00	O
	ATOM	712	H	GLY A	51149.730	4.770	0.876	1.00	0.00	H
	ATOM	713	1HA	GLY A	51151.034	2.326	0.221	1.00	0.00	H
	ATOM	714	2HA	GLY A	51151.352	3.324	1.631	1.00	0.00	H
	ATOM	715	N	LEU A	52149.873	0.567	1.494	1.00	0.00	N
20	ATOM	716	CA	LEU A	52149.232	-0.504	2.247	1.00	0.00	C
	ATOM	717	C	LEU A	52150.270	-1.379	2.943	1.00	0.00	C
	ATOM	718	O	LEU A	52151.305	-1.710	2.364	1.00	0.00	O
	ATOM	719	CB	LEU A	52148.365	-1.360	1.322	1.00	0.00	C
	ATOM	720	CG	LEU A	52147.140	-0.650	0.742	1.00	0.00	C
25	ATOM	721	CD1	LEU A	52146.534	-1.469	-0.388	1.00	0.00	C
	ATOM	722	CD2	LEU A	52146.108	-0.394	1.830	1.00	0.00	C
	ATOM	723	H	LEU A	52150.311	0.356	0.643	1.00	0.00	H
	ATOM	724	HA	LEU A	52148.601	-0.050	2.997	1.00	0.00	H
	ATOM	725	1HB	LEU A	52148.980	-1.701	0.501	1.00	0.00	H

	ATOM	726	2HB	LEU A	52148.024	-2.221	1.876	1.00	0.00	H
	ATOM	727	HG	LEU A	52147.444	0.305	0.336	1.00	0.00	H
	ATOM	728	1HD1	LEU A	52145.929	-0.828	-1.012	1.00	0.00	H
	ATOM	729	2HD1	LEU A	52145.918	-2.253	0.027	1.00	0.00	H
5	ATOM	730	3HD1	LEU A	52147.324	-1.906	-0.979	1.00	0.00	H
	ATOM	731	1HD2	LEU A	52146.587	0.078	2.675	1.00	0.00	H
	ATOM	732	2HD2	LEU A	52145.673	-1.332	2.141	1.00	0.00	H
	ATOM	733	3HD2	LEU A	52145.334	0.254	1.447	1.00	0.00	H
	ATOM	734	N	GLU A	53149.985	-1.750	4.187	1.00	0.00	N
10	ATOM	735	CA	GLU A	53150.892	-2.587	4.962	1.00	0.00	C
	ATOM	736	C	GLU A	53150.367	-4.015	5.058	1.00	0.00	C
	ATOM	737	O	GLU A	53149.392	-4.282	5.759	1.00	0.00	O
	ATOM	738	CB	GLU A	53151.084	-2.006	6.365	1.00	0.00	C
	ATOM	739	CG	GLU A	53152.053	-2.799	7.225	1.00	0.00	C
15	ATOM	740	CD	GLU A	53151.694	-2.758	8.697	1.00	0.00	C
	ATOM	741	OE1	GLU A	53152.597	-2.965	9.535	1.00	0.00	O
	ATOM	742	OE2	GLU A	53150.510	-2.518	9.013	1.00	0.00	O
	ATOM	743	H	GLU A	53149.143	-1.454	4.594	1.00	0.00	H
	ATOM	744	HA	GLU A	53151.846	-2.599	4.455	1.00	0.00	H
20	ATOM	745	1HB	GLU A	53151.457	-0.996	6.276	1.00	0.00	H
	ATOM	746	2HB	GLU A	53150.127	-1.982	6.865	1.00	0.00	H
	ATOM	747	1HG	GLU A	53152.046	-3.828	6.898	1.00	0.00	H
	ATOM	748	2HG	GLU A	53153.045	-2.389	7.100	1.00	0.00	H
	ATOM	749	N	LEU A	54151.021	-4.929	4.348	1.00	0.00	N
25	ATOM	750	CA	LEU A	54150.618	-6.331	4.353	1.00	0.00	C
	ATOM	751	C	LEU A	54150.983	-6.997	5.676	1.00	0.00	C
	ATOM	752	O	LEU A	54152.069	-6.783	6.212	1.00	0.00	O
	ATOM	753	CB	LEU A	54151.282	-7.078	3.194	1.00	0.00	C
	ATOM	754	CG	LEU A	54151.184	-6.382	1.835	1.00	0.00	C

	ATOM	755	CD1	LEU	A	54152.187	-6.976	0.859	1.00	0.00	C
	ATOM	756	CD2	LEU	A	54149.771	-6.491	1.283	1.00	0.00	C
	ATOM	757	H	LEU	A	54151.791	-4.655	3.808	1.00	0.00	H
	ATOM	758	HA	LEU	A	54149.547	-6.369	4.227	1.00	0.00	H
5	ATOM	759	1HB	LEU	A	54152.327	-7.213	3.433	1.00	0.00	H
	ATOM	760	2HB	LEU	A	54150.821	-8.050	3.109	1.00	0.00	H
	ATOM	761	HG	LEU	A	54151.417	-5.334	1.957	1.00	0.00	H
	ATOM	762	1HD1	LEU	A	54151.706	-7.745	0.272	1.00	0.00	H
	ATOM	763	2HD1	LEU	A	54153.012	-7.406	1.407	1.00	0.00	H
10	ATOM	764	3HD1	LEU	A	54152.555	-6.200	0.205	1.00	0.00	H
	ATOM	765	1HD2	LEU	A	54149.795	-6.380	0.209	1.00	0.00	H
	ATOM	766	2HD2	LEU	A	54149.156	-5.713	1.712	1.00	0.00	H
	ATOM	767	3HD2	LEU	A	54149.359	-7.457	1.536	1.00	0.00	H
	ATOM	768	N	GLU	A	55150.065	-7.806	6.197	1.00	0.00	N
15	ATOM	769	CA	GLU	A	55150.290	-8.504	7.458	1.00	0.00	C
	ATOM	770	C	GLU	A	55151.347	-9.593	7.295	1.00	0.00	C
	ATOM	771	O	GLU	A	55152.090	-9.894	8.229	1.00	0.00	O
	ATOM	772	CB	GLU	A	55148.983	-9.117	7.965	1.00	0.00	C
	ATOM	773	CG	GLU	A	55147.843	-8.118	8.067	1.00	0.00	C
20	ATOM	774	CD	GLU	A	55147.017	-8.302	9.326	1.00	0.00	C
	ATOM	775	OE1	GLU	A	55147.071	-9.401	9.916	1.00	0.00	O
	ATOM	776	OE2	GLU	A	55146.318	-7.346	9.722	1.00	0.00	O
	ATOM	777	H	GLU	A	55149.218	-7.937	5.723	1.00	0.00	H
	ATOM	778	HA	GLU	A	55150.642	-7.782	8.179	1.00	0.00	H
25	ATOM	779	1HB	GLU	A	55148.683	-9.906	7.291	1.00	0.00	H
	ATOM	780	2HB	GLU	A	55149.154	-9.538	8.945	1.00	0.00	H
	ATOM	781	1HG	GLU	A	55148.254	-7.120	8.069	1.00	0.00	H
	ATOM	782	2HG	GLU	A	55147.198	-8.239	7.210	1.00	0.00	H
	ATOM	783	N	ASP	A	56151.406	-10.179	6.103	1.00	0.00	N

	ATOM	784	CA	ASP	A	56152.372	-11.234	5.818	1.00	0.00	C
	ATOM	785	C	ASP	A	56153.664	-10.651	5.256	1.00	0.00	C
	ATOM	786	O	ASP	A	56153.650	-9.931	4.258	1.00	0.00	O
	ATOM	787	CB	ASP	A	56151.781	-12.241	4.830	1.00	0.00	C
5	ATOM	788	CG	ASP	A	56150.691	-13.091	5.453	1.00	0.00	C
	ATOM	789	OD1	ASP	A	56149.769	-13.504	4.718	1.00	0.00	O
	ATOM	790	OD2	ASP	A	56150.759	-13.342	6.674	1.00	0.00	O
	ATOM	791	H	ASP	A	56150.786	-9.895	5.399	1.00	0.00	H
	ATOM	792	HA	ASP	A	56152.593	-11.741	6.745	1.00	0.00	H
10	ATOM	793	1HB	ASP	A	56151.362	-11.708	3.990	1.00	0.00	H
	ATOM	794	2HB	ASP	A	56152.566	-12.895	4.480	1.00	0.00	H
	ATOM	795	N	GLU	A	57154.781	-10.966	5.905	1.00	0.00	N
	ATOM	796	CA	GLU	A	57156.083	-10.474	5.470	1.00	0.00	C
	ATOM	797	C	GLU	A	57156.427	-10.999	4.080	1.00	0.00	C
15	ATOM	798	O	GLU	A	57156.851	-12.145	3.927	1.00	0.00	O
	ATOM	799	CB	GLU	A	57157.167	-10.886	6.467	1.00	0.00	C
	ATOM	800	CG	GLU	A	57157.113	-10.116	7.776	1.00	0.00	C
	ATOM	801	CD	GLU	A	57157.985	-10.733	8.852	1.00	0.00	C
	ATOM	802	OE1	GLU	A	57158.567	-9.973	9.653	1.00	0.00	O
20	ATOM	803	OE2	GLU	A	57158.086	-11.977	8.892	1.00	0.00	O
	ATOM	804	H	GLU	A	57154.728	-11.545	6.694	1.00	0.00	H
	ATOM	805	HA	GLU	A	57156.033	-9.396	5.431	1.00	0.00	H
	ATOM	806	1HB	GLU	A	57157.056	-11.937	6.687	1.00	0.00	H
	ATOM	807	2HB	GLU	A	57158.135	-10.721	6.017	1.00	0.00	H
25	ATOM	808	1HG	GLU	A	57157.448	-9.105	7.599	1.00	0.00	H
	ATOM	809	2HG	GLU	A	57156.092	-10.099	8.127	1.00	0.00	H
	ATOM	810	N	CYS	A	58156.242	-10.156	3.070	1.00	0.00	N
	ATOM	811	CA	CYS	A	58156.533	-10.535	1.693	1.00	0.00	C
	ATOM	812	C	CYS	A	58157.946	-10.114	1.300	1.00	0.00	C

	ATOM	813	O	CYS	A	58158.303	-8.939	1.397	1.00	0.00	O
	ATOM	814	CB	CYS	A	58155.516	-9.904	0.742	1.00	0.00	C
	ATOM	815	SG	CYS	A	58154.053	-10.924	0.443	1.00	0.00	S
	ATOM	816	H	CYS	A	58155.901	-9.256	3.256	1.00	0.00	H
5	ATOM	817	HA	CYS	A	58156.460	-11.611	1.623	1.00	0.00	H
	ATOM	818	1HB	CYS	A	58155.181	-8.965	1.156	1.00	0.00	H
	ATOM	819	2HB	CYS	A	58155.991	-9.722	-0.212	1.00	0.00	H
	ATOM	820	HG	CYS	A	58153.934	-10.999	-0.506	1.00	0.00	H
	ATOM	821	N	ALA	A	59158.744	-11.079	0.855	1.00	0.00	N
10	ATOM	822	CA	ALA	A	59160.117	-10.807	0.448	1.00	0.00	C
	ATOM	823	C	ALA	A	59160.156	-9.970	-0.826	1.00	0.00	C
	ATOM	824	O	ALA	A	59159.813	-10.450	-1.907	1.00	0.00	O
	ATOM	825	CB	ALA	A	59160.876	-12.111	0.249	1.00	0.00	C
	ATOM	826	H	ALA	A	59158.402	-11.995	0.801	1.00	0.00	H
15	ATOM	827	HA	ALA	A	59160.598	-10.256	1.243	1.00	0.00	H
	ATOM	828	1HB	ALA	A	59160.889	-12.363	-0.801	1.00	0.00	H
	ATOM	829	2HB	ALA	A	59160.387	-12.900	0.802	1.00	0.00	H
	ATOM	830	3HB	ALA	A	59161.889	-11.995	0.605	1.00	0.00	H
	ATOM	831	N	GLY	A	60160.576	-8.716	-0.692	1.00	0.00	N
20	ATOM	832	CA	GLY	A	60160.651	-7.832	-1.840	1.00	0.00	C
	ATOM	833	C	GLY	A	60160.053	-6.468	-1.563	1.00	0.00	C
	ATOM	834	O	GLY	A	60160.466	-5.470	-2.152	1.00	0.00	O
	ATOM	835	H	GLY	A	60160.836	-8.388	0.194	1.00	0.00	H
	ATOM	836	1HA	GLY	A	60161.688	-7.708	-2.117	1.00	0.00	H
25	ATOM	837	2HA	GLY	A	60160.122	-8.286	-2.665	1.00	0.00	H
	ATOM	838	N	CYS	A	61159.074	-6.425	-0.664	1.00	0.00	N
	ATOM	839	CA	CYS	A	61158.416	-5.173	-0.311	1.00	0.00	C
	ATOM	840	C	CYS	A	61159.344	-4.284	0.510	1.00	0.00	C
	ATOM	841	O	CYS	A	61160.455	-4.683	0.860	1.00	0.00	O

	ATOM	842	CB	CYS	A	61157.132	-5.451	0.472	1.00	0.00	C
	ATOM	843	SG	CYS	A	61156.021	-6.631	-0.329	1.00	0.00	S
	ATOM	844	H	CYS	A	61158.788	-7.255	-0.229	1.00	0.00	H
	ATOM	845	HA	CYS	A	61158.164	-4.661	-1.227	1.00	0.00	H
5	ATOM	846	1HB	CYS	A	61157.389	-5.850	1.442	1.00	0.00	H
	ATOM	847	2HB	CYS	A	61156.591	-4.525	0.602	1.00	0.00	H
	ATOM	848	HG	CYS	A	61155.639	-7.189	0.354	1.00	0.00	H
	ATOM	849	N	THR	A	62158.881	-3.076	0.816	1.00	0.00	N
	ATOM	850	CA	THR	A	62159.669	-2.129	1.596	1.00	0.00	C
10	ATOM	851	C	THR	A	62159.163	-2.056	3.034	1.00	0.00	C
	ATOM	852	O	THR	A	62158.177	-2.701	3.389	1.00	0.00	O
	ATOM	853	CB	THR	A	62159.619	-0.742	0.955	1.00	0.00	C
	ATOM	854	OG1	THR	A	62158.314	-0.454	0.483	1.00	0.00	O
	ATOM	855	CG2	THR	A	62160.573	-0.585	-0.208	1.00	0.00	C
15	ATOM	856	H	THR	A	62157.987	-2.815	0.509	1.00	0.00	H
	ATOM	857	HA	THR	A	62160.691	-2.476	1.603	1.00	0.00	H
	ATOM	858	HB	THR	A	62159.881	-0.003	1.699	1.00	0.00	H
	ATOM	859	HG1	THR	A	62157.782	-0.107	1.204	1.00	0.00	H
	ATOM	860	1HG2	THR	A	62160.889	-1.560	-0.549	1.00	0.00	H
20	ATOM	861	2HG2	THR	A	62161.435	-0.018	0.108	1.00	0.00	H
	ATOM	862	3HG2	THR	A	62160.076	-0.066	-1.014	1.00	0.00	H
	ATOM	863	N	ASP	A	63159.847	-1.268	3.857	1.00	0.00	N
	ATOM	864	CA	ASP	A	63159.467	-1.109	5.255	1.00	0.00	C
	ATOM	865	C	ASP	A	63158.836	0.257	5.497	1.00	0.00	C
25	ATOM	866	O	ASP	A	63158.965	0.829	6.578	1.00	0.00	O
	ATOM	867	CB	ASP	A	63160.689	-1.287	6.160	1.00	0.00	C
	ATOM	868	CG	ASP	A	63161.787	-0.290	5.849	1.00	0.00	C
	ATOM	869	OD1	ASP	A	63162.647	-0.600	4.998	1.00	0.00	O
	ATOM	870	OD2	ASP	A	63161.789	0.801	6.458	1.00	0.00	O

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	ATOM	871	H	ASP	A	63160.625	-0.779	3.514	1.00	0.00	H
	ATOM	872	HA	ASP	A	63158.743	-1.875	5.490	1.00	0.00	H
	ATOM	873	1HB	ASP	A	63160.388	-1.156	7.188	1.00	0.00	H
	ATOM	874	2HB	ASP	A	63161.083	-2.284	6.029	1.00	0.00	H
5	ATOM	875	N	GLY	A	64158.152	0.775	4.482	1.00	0.00	N
	ATOM	876	CA	GLY	A	64157.511	2.071	4.603	1.00	0.00	C
	ATOM	877	C	GLY	A	64158.215	3.146	3.799	1.00	0.00	C
	ATOM	878	O	GLY	A	64158.375	4.274	4.263	1.00	0.00	O
	ATOM	879	H	GLY	A	64158.083	0.274	3.642	1.00	0.00	H
10	ATOM	880	1HA	GLY	A	64156.490	1.989	4.257	1.00	0.00	H
	ATOM	881	2HA	GLY	A	64157.505	2.362	5.643	1.00	0.00	H
	ATOM	882	N	THR	A	65158.638	2.795	2.589	1.00	0.00	N
	ATOM	883	CA	THR	A	65159.329	3.737	1.717	1.00	0.00	C
	ATOM	884	C	THR	A	65158.943	3.515	0.260	1.00	0.00	C
15	ATOM	885	O	THR	A	65159.044	2.402	-0.257	1.00	0.00	O
	ATOM	886	CB	THR	A	65160.844	3.600	1.884	1.00	0.00	C
	ATOM	887	OG1	THR	A	65161.250	2.258	1.686	1.00	0.00	O
	ATOM	888	CG2	THR	A	65161.338	4.034	3.246	1.00	0.00	C
	ATOM	889	H	THR	A	65158.481	1.880	2.275	1.00	0.00	H
20	ATOM	890	HA	THR	A	65159.034	4.734	2.008	1.00	0.00	H
	ATOM	891	HB	THR	A	65161.334	4.215	1.143	1.00	0.00	H
	ATOM	892	HG1	THR	A	65160.827	1.907	0.900	1.00	0.00	H
	ATOM	893	1HG2	THR	A	65160.554	4.569	3.761	1.00	0.00	H
	ATOM	894	2HG2	THR	A	65162.197	4.679	3.129	1.00	0.00	H
25	ATOM	895	3HG2	THR	A	65161.619	3.164	3.822	1.00	0.00	H
	ATOM	896	N	PHE	A	66158.503	4.581	-0.399	1.00	0.00	N
	ATOM	897	CA	PHE	A	66158.101	4.504	-1.799	1.00	0.00	C
	ATOM	898	C	PHE	A	66159.101	5.230	-2.694	1.00	0.00	C
	ATOM	899	O	PHE	A	66159.198	6.457	-2.665	1.00	0.00	O

	ATOM	900	CB	PHE A	66156.705	5.101	-1.985	1.00	0.00	C
	ATOM	901	CG	PHE A	66156.083	4.770	-3.311	1.00	0.00	C
	ATOM	902	CD1	PHE A	66155.689	5.778	-4.177	1.00	0.00	C
	ATOM	903	CD2	PHE A	66155.893	3.452	-3.692	1.00	0.00	C
5	ATOM	904	CE1	PHE A	66155.116	5.476	-5.398	1.00	0.00	C
	ATOM	905	CE2	PHE A	66155.321	3.144	-4.912	1.00	0.00	C
	ATOM	906	CZ	PHE A	66154.932	4.158	-5.766	1.00	0.00	C
	ATOM	907	H	PHE A	66158.446	5.442	0.066	1.00	0.00	H
	ATOM	908	HA	PHE A	66158.077	3.461	-2.080	1.00	0.00	H
10	ATOM	909	1HB	PHE A	66156.055	4.726	-1.211	1.00	0.00	H
	ATOM	910	2HB	PHE A	66156.768	6.176	-1.906	1.00	0.00	H
	ATOM	911	HD1	PHE A	66155.833	6.809	-3.891	1.00	0.00	H
	ATOM	912	HD2	PHE A	66156.196	2.659	-3.026	1.00	0.00	H
	ATOM	913	HE1	PHE A	66154.813	6.271	-6.064	1.00	0.00	H
15	ATOM	914	HE2	PHE A	66155.178	2.112	-5.197	1.00	0.00	H
	ATOM	915	HZ	PHE A	66154.485	3.919	-6.720	1.00	0.00	H
	ATOM	916	N	ARG A	67159.843	4.465	-3.487	1.00	0.00	N
	ATOM	917	CA	ARG A	67160.835	5.035	-4.390	1.00	0.00	C
	ATOM	918	C	ARG A	67161.898	5.807	-3.615	1.00	0.00	C
20	ATOM	919	O	ARG A	67162.370	6.853	-4.062	1.00	0.00	O
	ATOM	920	CB	ARG A	67160.158	5.956	-5.408	1.00	0.00	C
	ATOM	921	CG	ARG A	67158.907	5.359	-6.030	1.00	0.00	C
	ATOM	922	CD	ARG A	67158.567	6.031	-7.350	1.00	0.00	C
	ATOM	923	NE	ARG A	67157.502	5.330	-8.063	1.00	0.00	N
25	ATOM	924	CZ	ARG A	67157.666	4.161	-8.677	1.00	0.00	C
	ATOM	925	NH1	ARG A	67158.849	3.558	-8.668	1.00	0.00	N
	ATOM	926	NH2	ARG A	67156.644	3.591	-9.302	1.00	0.00	N
	ATOM	927	H	ARG A	67159.719	3.493	-3.465	1.00	0.00	H
	ATOM	928	HA	ARG A	67161.311	4.220	-4.917	1.00	0.00	H



	ATOM	929	1HB	ARG A	67159.886	6.877	-4.916	1.00	0.00	H
	ATOM	930	2HB	ARG A	67160.859	6.174	-6.199	1.00	0.00	H
	ATOM	931	1HG	ARG A	67159.071	4.306	-6.206	1.00	0.00	H
	ATOM	932	2HG	ARG A	67158.080	5.488	-5.346	1.00	0.00	H
5	ATOM	933	1HD	ARG A	67158.248	7.043	-7.152	1.00	0.00	H
	ATOM	934	2HD	ARG A	67159.452	6.048	-7.969	1.00	0.00	H
	ATOM	935	HE	ARG A	67156.618	5.753	-8.086	1.00	0.00	H
	ATOM	936	1HH1	ARG A	67159.623	3.982	-8.199	1.00	0.00	H
	ATOM	937	2HH1	ARG A	67158.966	2.679	-9.131	1.00	0.00	H
10	ATOM	938	1HH2	ARG A	67155.752	4.040	-9.312	1.00	0.00	H
	ATOM	939	2HH2	ARG A	67156.767	2.712	-9.763	1.00	0.00	H
	ATOM	940	N	GLY A	68162.269	5.284	-2.451	1.00	0.00	N
	ATOM	941	CA	GLY A	68163.274	5.938	-1.632	1.00	0.00	C
	ATOM	942	C	GLY A	68162.724	7.136	-0.883	1.00	0.00	C
15	ATOM	943	O	GLY A	68163.458	8.076	-0.580	1.00	0.00	O
	ATOM	944	H	GLY A	68161.859	4.449	-2.145	1.00	0.00	H
	ATOM	945	1HA	GLY A	68163.658	5.225	-0.917	1.00	0.00	H
	ATOM	946	2HA	GLY A	68164.084	6.265	-2.268	1.00	0.00	H
	ATOM	947	N	THR A	69161.430	7.102	-0.584	1.00	0.00	N
20	ATOM	948	CA	THR A	69160.783	8.193	0.133	1.00	0.00	C
	ATOM	949	C	THR A	69159.899	7.658	1.256	1.00	0.00	C
	ATOM	950	O	THR A	69158.746	7.291	1.030	1.00	0.00	O
	ATOM	951	CB	THR A	69159.948	9.040	-0.828	1.00	0.00	C
	ATOM	952	OG1	THR A	69160.661	9.285	-2.028	1.00	0.00	O
25	ATOM	953	CG2	THR A	69159.546	10.380	-0.251	1.00	0.00	C
	ATOM	954	H	THR A	69160.897	6.324	-0.852	1.00	0.00	H
	ATOM	955	HA	THR A	69161.556	8.811	0.565	1.00	0.00	H
	ATOM	956	HB	THR A	69159.044	8.501	-1.074	1.00	0.00	H
	ATOM	957	HG1	THR A	69160.425	8.623	-2.681	1.00	0.00	H

	ATOM	958	1HG2	THR	A	69159.640	11.143	-1.010	1.00	0.00	H
	ATOM	959	2HG2	THR	A	69160.189	10.619	0.583	1.00	0.00	H
	ATOM	960	3HG2	THR	A	69158.521	10.334	0.087	1.00	0.00	H
	ATOM	961	N	ARG	A	70160.448	7.616	2.465	1.00	0.00	N
5	ATOM	962	CA	ARG	A	70159.709	7.125	3.623	1.00	0.00	C
	ATOM	963	C	ARG	A	70158.552	8.058	3.966	1.00	0.00	C
	ATOM	964	O	ARG	A	70158.739	9.263	4.126	1.00	0.00	O
	ATOM	965	CB	ARG	A	70160.641	6.985	4.828	1.00	0.00	C
	ATOM	966	CG	ARG	A	70159.945	6.478	6.082	1.00	0.00	C
10	ATOM	967	CD	ARG	A	70159.718	7.595	7.090	1.00	0.00	C
	ATOM	968	NE	ARG	A	70160.355	7.311	8.373	1.00	0.00	N
	ATOM	969	CZ	ARG	A	70161.654	7.482	8.610	1.00	0.00	C
	ATOM	970	NH1	ARG	A	70162.457	7.933	7.653	1.00	0.00	N
	ATOM	971	NH2	ARG	A	70162.152	7.201	9.806	1.00	0.00	N
15	ATOM	972	H	ARG	A	70161.371	7.922	2.583	1.00	0.00	H
	ATOM	973	HA	ARG	A	70159.310	6.153	3.374	1.00	0.00	H
	ATOM	974	1HB	ARG	A	70161.433	6.293	4.577	1.00	0.00	H
	ATOM	975	2HB	ARG	A	70161.075	7.949	5.046	1.00	0.00	H
	ATOM	976	1HG	ARG	A	70158.990	6.057	5.806	1.00	0.00	H
20	ATOM	977	2HG	ARG	A	70160.558	5.714	6.537	1.00	0.00	H
	ATOM	978	1HD	ARG	A	70160.124	8.513	6.692	1.00	0.00	H
	ATOM	979	2HD	ARG	A	70158.654	7.709	7.245	1.00	0.00	H
	ATOM	980	HE	ARG	A	70159.786	6.977	9.097	1.00	0.00	H
	ATOM	981	1HH1	ARG	A	70162.087	8.147	6.749	1.00	0.00	H
25	ATOM	982	2HH1	ARG	A	70163.431	8.058	7.838	1.00	0.00	H
	ATOM	983	1HH2	ARG	A	70161.552	6.861	10.530	1.00	0.00	H
	ATOM	984	2HH2	ARG	A	70163.127	7.329	9.983	1.00	0.00	H
	ATOM	985	N	TYR	A	71157.355	7.490	4.077	1.00	0.00	N
	ATOM	986	CA	TYR	A	71156.166	8.269	4.402	1.00	0.00	C

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	ATOM	987	C	TYR A	71155.674	7.950	5.809	1.00	0.00	C
	ATOM	988	O	TYR A	71155.102	8.804	6.486	1.00	0.00	O
	ATOM	989	CB	TYR A	71155.057	7.991	3.386	1.00	0.00	C
	ATOM	990	CG	TYR A	71155.312	8.601	2.026	1.00	0.00	C
5	ATOM	991	CD1	TYR A	71155.252	7.827	0.874	1.00	0.00	C
	ATOM	992	CD2	TYR A	71155.614	9.951	1.894	1.00	0.00	C
	ATOM	993	CE1	TYR A	71155.486	8.380	-0.370	1.00	0.00	C
	ATOM	994	CE2	TYR A	71155.847	10.512	0.653	1.00	0.00	C
	ATOM	995	CZ	TYR A	71155.783	9.722	-0.476	1.00	0.00	C
10	ATOM	996	OH	TYR A	71156.016	10.276	-1.713	1.00	0.00	O
	ATOM	997	H	TYR A	71157.270	6.524	3.937	1.00	0.00	H
	ATOM	998	HA	TYR A	71156.431	9.314	4.354	1.00	0.00	H
	ATOM	999	1HB	TYR A	71154.956	6.924	3.256	1.00	0.00	H
	ATOM	1000	2HB	TYR A	71154.126	8.393	3.761	1.00	0.00	H
15	ATOM	1001	HD1	TYR A	71155.020	6.775	0.960	1.00	0.00	H
	ATOM	1002	HD2	TYR A	71155.664	10.567	2.780	1.00	0.00	H
	ATOM	1003	HE1	TYR A	71155.435	7.761	-1.254	1.00	0.00	H
	ATOM	1004	HE2	TYR A	71156.080	11.563	0.571	1.00	0.00	H
	ATOM	1005	HH	TYR A	71156.854	9.955	-2.056	1.00	0.00	H
20	ATOM	1006	N	PHE A	72155.900	6.714	6.244	1.00	0.00	N
	ATOM	1007	CA	PHE A	72155.480	6.283	7.572	1.00	0.00	C
	ATOM	1008	C	PHE A	72156.457	5.262	8.147	1.00	0.00	C
	ATOM	1009	O	PHE A	72157.463	4.930	7.521	1.00	0.00	O
	ATOM	1010	CB	PHE A	72154.074	5.683	7.515	1.00	0.00	C
25	ATOM	1011	CG	PHE A	72153.907	4.646	6.442	1.00	0.00	C
	ATOM	1012	CD1	PHE A	72153.991	3.296	6.745	1.00	0.00	C
	ATOM	1013	CD2	PHE A	72153.664	5.020	5.130	1.00	0.00	C
	ATOM	1014	CE1	PHE A	72153.838	2.340	5.760	1.00	0.00	C
	ATOM	1015	CE2	PHE A	72153.510	4.068	4.140	1.00	0.00	C

	ATOM	1016	CZ	PHE A	72153.597	2.726	4.456	1.00	0.00	C
	ATOM	1017	H	PHE A	72156.362	6.078	5.659	1.00	0.00	H
	ATOM	1018	HA	PHE A	72155.466	7.150	8.214	1.00	0.00	H
	ATOM	1019	1HB	PHE A	72153.850	5.219	8.463	1.00	0.00	H
5	ATOM	1020	2HB	PHE A	72153.361	6.474	7.328	1.00	0.00	H
	ATOM	1021	HD1	PHE A	72154.180	2.993	7.765	1.00	0.00	H
	ATOM	1022	HD2	PHE A	72153.597	6.069	4.882	1.00	0.00	H
	ATOM	1023	HE1	PHE A	72153.906	1.291	6.009	1.00	0.00	H
	ATOM	1024	HE2	PHE A	72153.321	4.372	3.121	1.00	0.00	H
10	ATOM	1025	HZ	PHE A	72153.476	1.980	3.684	1.00	0.00	H
	ATOM	1026	N	THR A	73156.152	4.768	9.342	1.00	0.00	N
	ATOM	1027	CA	THR A	73157.003	3.784	10.003	1.00	0.00	C
	ATOM	1028	C	THR A	73156.260	2.467	10.201	1.00	0.00	C
	ATOM	1029	O	THR A	73155.275	2.404	10.938	1.00	0.00	O
15	ATOM	1030	CB	THR A	73157.485	4.319	11.352	1.00	0.00	C
	ATOM	1031	OG1	THR A	73157.819	5.693	11.256	1.00	0.00	O
	ATOM	1032	CG2	THR A	73158.697	3.588	11.888	1.00	0.00	C
	ATOM	1033	H	THR A	73155.336	5.071	9.791	1.00	0.00	H
	ATOM	1034	HA	THR A	73157.860	3.608	9.369	1.00	0.00	H
20	ATOM	1035	HB	THR A	73156.689	4.214	12.075	1.00	0.00	H
	ATOM	1036	HG1	THR A	73157.943	6.054	12.137	1.00	0.00	H
	ATOM	1037	1HG2	THR A	73158.608	3.479	12.959	1.00	0.00	H
	ATOM	1038	2HG2	THR A	73159.589	4.151	11.656	1.00	0.00	H
	ATOM	1039	3HG2	THR A	73158.759	2.610	11.431	1.00	0.00	H
25	ATOM	1040	N	CYS A	74156.736	1.418	9.539	1.00	0.00	N
	ATOM	1041	CA	CYS A	74156.116	0.102	9.643	1.00	0.00	C
	ATOM	1042	C	CYS A	74157.174	-0.992	9.725	1.00	0.00	C
	ATOM	1043	O	CYS A	74158.373	-0.717	9.671	1.00	0.00	O
	ATOM	1044	CB	CYS A	74155.198	-0.148	8.444	1.00	0.00	C

	ATOM	1045	SG	CYS	A	74153.512	0.467	8.665	1.00	0.00	S
	ATOM	1046	H	CYS	A	74157.524	1.531	8.967	1.00	0.00	H
	ATOM	1047	HA	CYS	A	74155.525	0.085	10.546	1.00	0.00	H
	ATOM	1048	1HB	CYS	A	74155.613	0.339	7.575	1.00	0.00	H
5	ATOM	1049	2HB	CYS	A	74155.140	-1.211	8.261	1.00	0.00	H
	ATOM	1050	HG	CYS	A	74153.269	0.955	7.875	1.00	0.00	H
	ATOM	1051	N	ALA	A	75156.723	-2.236	9.856	1.00	0.00	N
	ATOM	1052	CA	ALA	A	75157.631	-3.373	9.946	1.00	0.00	C
	ATOM	1053	C	ALA	A	75158.416	-3.552	8.652	1.00	0.00	C
10	ATOM	1054	O	ALA	A	75158.263	-2.776	7.708	1.00	0.00	O
	ATOM	1055	CB	ALA	A	75156.857	-4.640	10.276	1.00	0.00	C
	ATOM	1056	H	ALA	A	75155.756	-2.393	9.894	1.00	0.00	H
	ATOM	1057	HA	ALA	A	75158.325	-3.183	10.752	1.00	0.00	H
	ATOM	1058	1HB	ALA	A	75156.841	-4.784	11.347	1.00	0.00	H
15	ATOM	1059	2HB	ALA	A	75157.337	-5.487	9.807	1.00	0.00	H
	ATOM	1060	3HB	ALA	A	75155.846	-4.551	9.910	1.00	0.00	H
	ATOM	1061	N	LEU	A	76159.258	-4.580	8.613	1.00	0.00	N
	ATOM	1062	CA	LEU	A	76160.068	-4.861	7.434	1.00	0.00	C
	ATOM	1063	C	LEU	A	76159.357	-5.842	6.507	1.00	0.00	C
20	ATOM	1064	O	LEU	A	76158.756	-6.816	6.960	1.00	0.00	O
	ATOM	1065	CB	LEU	A	76161.428	-5.427	7.847	1.00	0.00	C
	ATOM	1066	CG	LEU	A	76162.316	-4.465	8.637	1.00	0.00	C
	ATOM	1067	CD1	LEU	A	76163.393	-5.228	9.391	1.00	0.00	C
	ATOM	1068	CD2	LEU	A	76162.943	-3.436	7.708	1.00	0.00	C
25	ATOM	1069	H	LEU	A	76159.336	-5.163	9.397	1.00	0.00	H
	ATOM	1070	HA	LEU	A	76160.219	-3.931	6.908	1.00	0.00	H
	ATOM	1071	1HB	LEU	A	76161.259	-6.307	8.451	1.00	0.00	H
	ATOM	1072	2HB	LEU	A	76161.959	-5.720	6.954	1.00	0.00	H
	ATOM	1073	HG	LEU	A	76161.711	-3.938	9.361	1.00	0.00	H

	ATOM	1074	1HD1	LEU	A	76164.253	-4.593	9.534	1.00	0.00	H
	ATOM	1075	2HD1	LEU	A	76163.679	-6.102	8.824	1.00	0.00	H
	ATOM	1076	3HD1	LEU	A	76163.009	-5.535	10.354	1.00	0.00	H
	ATOM	1077	1HD2	LEU	A	76163.039	-3.855	6.717	1.00	0.00	H
5	ATOM	1078	2HD2	LEU	A	76163.920	-3.162	8.079	1.00	0.00	H
	ATOM	1079	3HD2	LEU	A	76162.315	-2.558	7.666	1.00	0.00	H
	ATOM	1080	N	LYS	A	77159.429	-5.577	5.207	1.00	0.00	N
	ATOM	1081	CA	LYS	A	77158.793	-6.436	4.214	1.00	0.00	C
	ATOM	1082	C	LYS	A	77157.283	-6.478	4.419	1.00	0.00	C
10	ATOM	1083	O	LYS	A	77156.656	-7.529	4.285	1.00	0.00	O
	ATOM	1084	CB	LYS	A	77159.370	-7.851	4.288	1.00	0.00	C
	ATOM	1085	CG	LYS	A	77160.884	-7.899	4.152	1.00	0.00	C
	ATOM	1086	CD	LYS	A	77161.333	-7.461	2.766	1.00	0.00	C
	ATOM	1087	CE	LYS	A	77162.582	-6.598	2.832	1.00	0.00	C
15	ATOM	1088	NZ	LYS	A	77162.254	-5.158	3.023	1.00	0.00	N
	ATOM	1089	H	LYS	A	77159.924	-4.785	4.906	1.00	0.00	H
	ATOM	1090	HA	LYS	A	77159.001	-6.024	3.238	1.00	0.00	H
	ATOM	1091	1HB	LYS	A	77159.103	-8.287	5.239	1.00	0.00	H
	ATOM	1092	2HB	LYS	A	77158.940	-8.445	3.496	1.00	0.00	H
20	ATOM	1093	1HG	LYS	A	77161.323	-7.240	4.887	1.00	0.00	H
	ATOM	1094	2HG	LYS	A	77161.220	-8.910	4.327	1.00	0.00	H
	ATOM	1095	1HD	LYS	A	77161.545	-8.337	2.174	1.00	0.00	H
	ATOM	1096	2HD	LYS	A	77160.538	-6.894	2.304	1.00	0.00	H
	ATOM	1097	1HE	LYS	A	77163.191	-6.930	3.660	1.00	0.00	H
25	ATOM	1098	2HE	LYS	A	77163.134	-6.714	1.912	1.00	0.00	H
	ATOM	1099	1HZ	LYS	A	77161.291	-4.963	2.679	1.00	0.00	H
	ATOM	1100	2HZ	LYS	A	77162.925	-4.564	2.495	1.00	0.00	H
	ATOM	1101	3HZ	LYS	A	77162.307	-4.909	4.032	1.00	0.00	H
	ATOM	1102	N	LYS	A	78156.702	-5.327	4.745	1.00	0.00	N

	ATOM	1103	CA	LYS A	78155.265	-5.233	4.968	1.00	0.00	C
	ATOM	1104	C	LYS A	78154.741	-3.857	4.567	1.00	0.00	C
	ATOM	1105	O	LYS A	78153.838	-3.316	5.206	1.00	0.00	O
	ATOM	1106	CB	LYS A	78154.936	-5.509	6.436	1.00	0.00	C
5	ATOM	1107	CG	LYS A	78155.439	-6.856	6.930	1.00	0.00	C
	ATOM	1108	CD	LYS A	78155.044	-7.103	8.377	1.00	0.00	C
	ATOM	1109	CE	LYS A	78153.565	-7.429	8.503	1.00	0.00	C
	ATOM	1110	NZ	LYS A	78153.262	-8.159	9.765	1.00	0.00	N
	ATOM	1111	H	LYS A	78157.254	-4.523	4.837	1.00	0.00	H
10	ATOM	1112	HA	LYS A	78154.785	-5.980	4.355	1.00	0.00	H
	ATOM	1113	1HB	LYS A	78155.384	-4.737	7.045	1.00	0.00	H
	ATOM	1114	2HB	LYS A	78153.864	-5.480	6.566	1.00	0.00	H
	ATOM	1115	1HG	LYS A	78155.015	-7.635	6.314	1.00	0.00	H
	ATOM	1116	2HG	LYS A	78156.516	-6.878	6.851	1.00	0.00	H
15	ATOM	1117	1HD	LYS A	78155.619	-7.932	8.760	1.00	0.00	H
	ATOM	1118	2HD	LYS A	78155.259	-6.215	8.954	1.00	0.00	H
	ATOM	1119	1HE	LYS A	78153.003	-6.507	8.487	1.00	0.00	H
	ATOM	1120	2HE	LYS A	78153.271	-8.042	7.663	1.00	0.00	H
	ATOM	1121	1HZ	LYS A	78153.299	-9.186	9.602	1.00	0.00	H
20	ATOM	1122	2HZ	LYS A	78152.312	-7.907	10.105	1.00	0.00	H
	ATOM	1123	3HZ	LYS A	78153.957	-7.909	10.497	1.00	0.00	H
	ATOM	1124	N	ALA A	79155.313	-3.298	3.507	1.00	0.00	N
	ATOM	1125	CA	ALA A	79154.904	-1.986	3.022	1.00	0.00	C
	ATOM	1126	C	ALA A	79154.827	-1.964	1.499	1.00	0.00	C
25	ATOM	1127	O	ALA A	79155.846	-1.846	0.817	1.00	0.00	O
	ATOM	1128	CB	ALA A	79155.864	-0.916	3.519	1.00	0.00	C
	ATOM	1129	H	ALA A	79156.028	-3.779	3.040	1.00	0.00	H
	ATOM	1130	HA	ALA A	79153.924	-1.772	3.425	1.00	0.00	H
	ATOM	1131	1HB	ALA A	79156.388	-1.279	4.391	1.00	0.00	H

	ATOM	1132	2HB	ALA A	79155.310	-0.026	3.776	1.00	0.00	H
	ATOM	1133	3HB	ALA A	79156.578	-0.684	2.741	1.00	0.00	H
	ATOM	1134	N	LEU A	80153.612	-2.077	0.970	1.00	0.00	N
	ATOM	1135	CA	LEU A	80153.402	-2.069	-0.473	1.00	0.00	C
5	ATOM	1136	C	LEU A	80152.484	-0.924	-0.884	1.00	0.00	C
	ATOM	1137	O	LEU A	80151.354	-0.818	-0.407	1.00	0.00	O
	ATOM	1138	CB	LEU A	80152.808	-3.404	-0.928	1.00	0.00	C
	ATOM	1139	CG	LEU A	80152.489	-3.494	-2.422	1.00	0.00	C
	ATOM	1140	CD1	LEU A	80153.744	-3.825	-3.216	1.00	0.00	C
10	ATOM	1141	CD2	LEU A	80151.407	-4.534	-2.673	1.00	0.00	C
	ATOM	1142	H	LEU A	80152.839	-2.167	1.566	1.00	0.00	H
	ATOM	1143	HA	LEU A	80154.362	-1.934	-0.947	1.00	0.00	H
	ATOM	1144	1HB	LEU A	80153.508	-4.189	-0.682	1.00	0.00	H
	ATOM	1145	2HB	LEU A	80151.894	-3.573	-0.378	1.00	0.00	H
15	ATOM	1146	HG	LEU A	80152.122	-2.537	-2.764	1.00	0.00	H
	ATOM	1147	1HD1	LEU A	80153.968	-4.877	-3.113	1.00	0.00	H
	ATOM	1148	2HD1	LEU A	80154.572	-3.243	-2.839	1.00	0.00	H
	ATOM	1149	3HD1	LEU A	80153.582	-3.590	-4.257	1.00	0.00	H
	ATOM	1150	1HD2	LEU A	80150.440	-4.054	-2.672	1.00	0.00	H
20	ATOM	1151	2HD2	LEU A	80151.440	-5.282	-1.895	1.00	0.00	H
	ATOM	1152	3HD2	LEU A	80151.575	-5.003	-3.631	1.00	0.00	H
	ATOM	1153	N	PHE A	81152.977	-0.065	-1.770	1.00	0.00	N
	ATOM	1154	CA	PHE A	81152.201	1.074	-2.245	1.00	0.00	C
	ATOM	1155	C	PHE A	81151.396	0.705	-3.487	1.00	0.00	C
25	ATOM	1156	O	PHE A	81151.813	-0.141	-4.280	1.00	0.00	O
	ATOM	1157	CB	PHE A	81153.123	2.254	-2.554	1.00	0.00	C
	ATOM	1158	CG	PHE A	81153.759	2.855	-1.332	1.00	0.00	C
	ATOM	1159	CD1	PHE A	81153.219	3.986	-0.740	1.00	0.00	C
	ATOM	1160	CD2	PHE A	81154.894	2.288	-0.775	1.00	0.00	C



	ATOM	1161	CE1	PHE	A	81153.801	4.540	0.385	1.00	0.00	C
	ATOM	1162	CE2	PHE	A	81155.479	2.838	0.349	1.00	0.00	C
	ATOM	1163	CZ	PHE	A	81154.932	3.966	0.930	1.00	0.00	C
	ATOM	1164	H	PHE	A	81153.885	-0.201	-2.114	1.00	0.00	H
5	ATOM	1165	HA	PHE	A	81151.517	1.359	-1.460	1.00	0.00	H
	ATOM	1166	1HB	PHE	A	81153.914	1.922	-3.209	1.00	0.00	H
	ATOM	1167	2HB	PHE	A	81152.554	3.027	-3.048	1.00	0.00	H
	ATOM	1168	HD1	PHE	A	81152.335	4.436	-1.166	1.00	0.00	H
	ATOM	1169	HD2	PHE	A	81155.323	1.406	-1.228	1.00	0.00	H
10	ATOM	1170	HE1	PHE	A	81153.371	5.423	0.835	1.00	0.00	H
	ATOM	1171	HE2	PHE	A	81156.364	2.387	0.773	1.00	0.00	H
	ATOM	1172	HZ	PHE	A	81155.389	4.398	1.808	1.00	0.00	H
	ATOM	1173	N	VAL	A	82150.242	1.343	-3.650	1.00	0.00	N
	ATOM	1174	CA	VAL	A	82149.380	1.081	-4.796	1.00	0.00	C
15	ATOM	1175	C	VAL	A	82148.465	2.268	-5.077	1.00	0.00	C
	ATOM	1176	O	VAL	A	82148.334	3.174	-4.253	1.00	0.00	O
	ATOM	1177	CB	VAL	A	82148.517	-0.175	-4.574	1.00	0.00	C
	ATOM	1178	CG1	VAL	A	82149.388	-1.419	-4.519	1.00	0.00	C
	ATOM	1179	CG2	VAL	A	82147.691	-0.038	-3.304	1.00	0.00	C
20	ATOM	1180	H	VAL	A	82149.965	2.006	-2.984	1.00	0.00	H
	ATOM	1181	HA	VAL	A	82150.010	0.912	-5.656	1.00	0.00	H
	ATOM	1182	HB	VAL	A	82147.839	-0.273	-5.409	1.00	0.00	H
	ATOM	1183	1HG1	VAL	A	82150.172	-1.344	-5.260	1.00	0.00	H
	ATOM	1184	2HG1	VAL	A	82148.784	-2.291	-4.723	1.00	0.00	H
25	ATOM	1185	3HG1	VAL	A	82149.829	-1.508	-3.538	1.00	0.00	H
	ATOM	1186	1HG2	VAL	A	82146.737	-0.526	-3.441	1.00	0.00	H
	ATOM	1187	2HG2	VAL	A	82147.531	1.009	-3.090	1.00	0.00	H
	ATOM	1188	3HG2	VAL	A	82148.217	-0.497	-2.480	1.00	0.00	H
	ATOM	1189	N	LYS	A	83147.834	2.257	-6.247	1.00	0.00	N

	ATOM	1190	CA	LYS A	83146.931	3.333	-6.639	1.00	0.00	C
	ATOM	1191	C	LYS A	83145.672	3.327	-5.778	1.00	0.00	C
	ATOM	1192	O	LYS A	83144.950	2.332	-5.724	1.00	0.00	O
	ATOM	1193	CB	LYS A	83146.554	3.198	-8.116	1.00	0.00	C
5	ATOM	1194	CG	LYS A	83147.716	3.442	-9.064	1.00	0.00	C
	ATOM	1195	CD	LYS A	83147.351	3.082	-10.495	1.00	0.00	C
	ATOM	1196	CE	LYS A	83147.951	4.066	-11.487	1.00	0.00	C
	ATOM	1197	NZ	LYS A	83148.395	3.393	-12.739	1.00	0.00	N
	ATOM	1198	H	LYS A	83147.979	1.508	-6.862	1.00	0.00	H
10	ATOM	1199	HA	LYS A	83147.446	4.270	-6.492	1.00	0.00	H
	ATOM	1200	1HB	LYS A	83146.178	2.201	-8.289	1.00	0.00	H
	ATOM	1201	2HB	LYS A	83145.776	3.912	-8.343	1.00	0.00	H
	ATOM	1202	1HG	LYS A	83147.988	4.486	-9.024	1.00	0.00	H
	ATOM	1203	2HG	LYS A	83148.555	2.837	-8.753	1.00	0.00	H
15	ATOM	1204	1HD	LYS A	83147.725	2.094	-10.715	1.00	0.00	H
	ATOM	1205	2HD	LYS A	83146.276	3.093	-10.596	1.00	0.00	H
	ATOM	1206	1HE	LYS A	83147.206	4.809	-11.733	1.00	0.00	H
	ATOM	1207	2HE	LYS A	83148.800	4.549	-11.027	1.00	0.00	H
	ATOM	1208	1HZ	LYS A	83148.832	2.476	-12.515	1.00	0.00	H
20	ATOM	1209	2HZ	LYS A	83149.090	3.984	-13.235	1.00	0.00	H
	ATOM	1210	3HZ	LYS A	83147.580	3.233	-13.366	1.00	0.00	H
	ATOM	1211	N	LEU A	84145.417	4.445	-5.109	1.00	0.00	N
	ATOM	1212	CA	LEU A	84144.246	4.573	-4.250	1.00	0.00	C
	ATOM	1213	C	LEU A	84142.961	4.378	-5.049	1.00	0.00	C
25	ATOM	1214	O	LEU A	84141.971	3.858	-4.535	1.00	0.00	O
	ATOM	1215	CB	LEU A	84144.237	5.944	-3.571	1.00	0.00	C
	ATOM	1216	CG	LEU A	84142.996	6.246	-2.730	1.00	0.00	C
	ATOM	1217	CD1	LEU A	84143.069	5.526	-1.392	1.00	0.00	C
	ATOM	1218	CD2	LEU A	84142.846	7.745	-2.522	1.00	0.00	C

	ATOM	1219	H	LEU A	84146.031	5.204	-5.195	1.00	0.00	H
	ATOM	1220	HA	LEU A	84144.305	3.805	-3.493	1.00	0.00	H
	ATOM	1221	1HB	LEU A	84145.105	6.008	-2.929	1.00	0.00	H
	ATOM	1222	2HB	LEU A	84144.320	6.701	-4.335	1.00	0.00	H
5	ATOM	1223	HG	LEU A	84142.120	5.890	-3.253	1.00	0.00	H
	ATOM	1224	1HD1	LEU A	84143.969	5.817	-0.874	1.00	0.00	H
	ATOM	1225	2HD1	LEU A	84143.079	4.458	-1.559	1.00	0.00	H
	ATOM	1226	3HD1	LEU A	84142.208	5.788	-0.795	1.00	0.00	H
	ATOM	1227	1HD2	LEU A	84143.594	8.088	-1.824	1.00	0.00	H
10	ATOM	1228	2HD2	LEU A	84141.862	7.959	-2.130	1.00	0.00	H
	ATOM	1229	3HD2	LEU A	84142.974	8.254	-3.466	1.00	0.00	H
	ATOM	1230	N	LYS A	85142.985	4.799	-6.310	1.00	0.00	N
	ATOM	1231	CA	LYS A	85141.821	4.669	-7.179	1.00	0.00	C
	ATOM	1232	C	LYS A	85141.476	3.201	-7.415	1.00	0.00	C
15	ATOM	1233	O	LYS A	85140.323	2.860	-7.676	1.00	0.00	O
	ATOM	1234	CB	LYS A	85142.078	5.366	-8.517	1.00	0.00	C
	ATOM	1235	CG	LYS A	85143.400	4.979	-9.161	1.00	0.00	C
	ATOM	1236	CD	LYS A	85144.399	6.124	-9.118	1.00	0.00	C
	ATOM	1237	CE	LYS A	85144.251	7.037	-10.325	1.00	0.00	C
20	ATOM	1238	NZ	LYS A	85144.698	8.426	-10.028	1.00	0.00	N
	ATOM	1239	H	LYS A	85143.802	5.205	-6.663	1.00	0.00	H
	ATOM	1240	HA	LYS A	85140.987	5.149	-6.689	1.00	0.00	H
	ATOM	1241	1HB	LYS A	85141.281	5.111	-9.201	1.00	0.00	H
	ATOM	1242	2HB	LYS A	85142.077	6.434	-8.360	1.00	0.00	H
25	ATOM	1243	1HG	LYS A	85143.814	4.134	-8.631	1.00	0.00	H
	ATOM	1244	2HG	LYS A	85143.222	4.706	-10.191	1.00	0.00	H
	ATOM	1245	1HD	LYS A	85144.235	6.700	-8.221	1.00	0.00	H
	ATOM	1246	2HD	LYS A	85145.399	5.715	-9.109	1.00	0.00	H
	ATOM	1247	1HE	LYS A	85144.847	6.643	-11.134	1.00	0.00	H

	ATOM	1248	2HE	LYS	A	85143.212	7.057	-10.619	1.00	0.00	H
	ATOM	1249	1HZ	LYS	A	85144.700	8.995	-10.899	1.00	0.00	H
	ATOM	1250	2HZ	LYS	A	85145.659	8.416	-9.632	1.00	0.00	H
	ATOM	1251	3HZ	LYS	A	85144.056	8.868	-9.338	1.00	0.00	H
5	ATOM	1252	N	SER	A	86142.483	2.338	-7.322	1.00	0.00	N
	ATOM	1253	CA	SER	A	86142.283	0.908	-7.525	1.00	0.00	C
	ATOM	1254	C	SER	A	86142.180	0.177	-6.191	1.00	0.00	C
	ATOM	1255	O	SER	A	86142.582	-0.981	-6.073	1.00	0.00	O
	ATOM	1256	CB	SER	A	86143.430	0.324	-8.352	1.00	0.00	C
10	ATOM	1257	OG	SER	A	86143.578	1.016	-9.581	1.00	0.00	O
	ATOM	1258	H	SER	A	86143.380	2.669	-7.111	1.00	0.00	H
	ATOM	1259	HA	SER	A	86141.358	0.777	-8.067	1.00	0.00	H
	ATOM	1260	1HB	SER	A	86144.351	0.407	-7.794	1.00	0.00	H
	ATOM	1261	2HB	SER	A	86143.228	-0.716	-8.561	1.00	0.00	H
15	ATOM	1262	HG	SER	A	86142.715	1.148	-9.979	1.00	0.00	H
	ATOM	1263	N	CYS	A	87141.639	0.860	-5.188	1.00	0.00	N
	ATOM	1264	CA	CYS	A	87141.482	0.275	-3.861	1.00	0.00	C
	ATOM	1265	C	CYS	A	87140.008	0.152	-3.491	1.00	0.00	C
	ATOM	1266	O	CYS	A	87139.153	0.819	-4.073	1.00	0.00	O
20	ATOM	1267	CB	CYS	A	87142.211	1.124	-2.818	1.00	0.00	C
	ATOM	1268	SG	CYS	A	87143.995	0.839	-2.751	1.00	0.00	S
	ATOM	1269	H	CYS	A	87141.337	1.779	-5.343	1.00	0.00	H
	ATOM	1270	HA	CYS	A	87141.920	-0.712	-3.878	1.00	0.00	H
	ATOM	1271	1HB	CYS	A	87142.055	2.168	-3.041	1.00	0.00	H
25	ATOM	1272	2HB	CYS	A	87141.806	0.906	-1.840	1.00	0.00	H
	ATOM	1273	HG	CYS	A	87144.366	1.082	-3.603	1.00	0.00	H
	ATOM	1274	N	ARG	A	88139.715	-0.707	-2.519	1.00	0.00	N
	ATOM	1275	CA	ARG	A	88138.344	-0.918	-2.072	1.00	0.00	C
	ATOM	1276	C	ARG	A	88138.274	-0.998	-0.547	1.00	0.00	C

	ATOM	1277	O	ARG A	88139.152	-1.577	0.091	1.00	0.00	O
	ATOM	1278	CB	ARG A	88137.777	-2.198	-2.689	1.00	0.00	C
	ATOM	1279	CG	ARG A	88136.918	-1.952	-3.918	1.00	0.00	C
	ATOM	1280	CD	ARG A	88135.437	-1.957	-3.574	1.00	0.00	C
5	ATOM	1281	NE	ARG A	88134.598	-2.033	-4.768	1.00	0.00	N
	ATOM	1282	CZ	ARG A	88133.279	-2.220	-4.736	1.00	0.00	C
	ATOM	1283	NH1	ARG A	88132.649	-2.351	-3.576	1.00	0.00	N
	ATOM	1284	NH2	ARG A	88132.592	-2.276	-5.868	1.00	0.00	N
	ATOM	1285	H	ARG A	88140.440	-1.210	-2.093	1.00	0.00	H
10	ATOM	1286	HA	ARG A	88137.756	-0.077	-2.406	1.00	0.00	H
	ATOM	1287	1HB	ARG A	88138.597	-2.841	-2.972	1.00	0.00	H
	ATOM	1288	2HB	ARG A	88137.173	-2.705	-1.950	1.00	0.00	H
	ATOM	1289	1HG	ARG A	88137.176	-0.992	-4.340	1.00	0.00	H
	ATOM	1290	2HG	ARG A	88137.113	-2.730	-4.642	1.00	0.00	H
15	ATOM	1291	1HD	ARG A	88135.230	-2.810	-2.946	1.00	0.00	H
	ATOM	1292	2HD	ARG A	88135.203	-1.050	-3.037	1.00	0.00	H
	ATOM	1293	HE	ARG A	88135.038	-1.938	-5.638	1.00	0.00	H
	ATOM	1294	1HH1	ARG A	88133.161	-2.310	-2.719	1.00	0.00	H
	ATOM	1295	2HH1	ARG A	88131.658	-2.491	-3.559	1.00	0.00	H
20	ATOM	1296	1HH2	ARG A	88133.062	-2.176	-6.745	1.00	0.00	H
	ATOM	1297	2HH2	ARG A	88131.601	-2.416	-5.845	1.00	0.00	H
	ATOM	1298	N	PRO A	89137.224	-0.415	0.060	1.00	0.00	N
	ATOM	1299	CA	PRO A	89137.049	-0.428	1.516	1.00	0.00	C
	ATOM	1300	C	PRO A	89137.081	-1.842	2.089	1.00	0.00	C
25	ATOM	1301	O	PRO A	89136.463	-2.756	1.545	1.00	0.00	O
	ATOM	1302	CB	PRO A	89135.666	0.197	1.720	1.00	0.00	C
	ATOM	1303	CG	PRO A	89135.435	1.020	0.501	1.00	0.00	C
	ATOM	1304	CD	PRO A	89136.128	0.299	-0.621	1.00	0.00	C
	ATOM	1305	HA	PRO A	89137.797	0.175	2.009	1.00	0.00	H

	ATOM	1306	1HB	PRO	A	89134.926	-0.584	1.817	1.00	0.00	H
	ATOM	1307	2HB	PRO	A	89135.672	0.807	2.612	1.00	0.00	H
	ATOM	1308	1HG	PRO	A	89134.376	1.093	0.303	1.00	0.00	H
	ATOM	1309	2HG	PRO	A	89135.862	2.003	0.634	1.00	0.00	H
5	ATOM	1310	1HD	PRO	A	89135.452	-0.396	-1.098	1.00	0.00	H
	ATOM	1311	2HD	PRO	A	89136.516	1.005	-1.340	1.00	0.00	H
	ATOM	1312	N	ASP	A	90137.806	-2.014	3.189	1.00	0.00	N
	ATOM	1313	CA	ASP	A	90137.917	-3.316	3.835	1.00	0.00	C
	ATOM	1314	C	ASP	A	90136.972	-3.412	5.029	1.00	0.00	C
10	ATOM	1315	O	ASP	A	90137.077	-2.637	5.980	1.00	0.00	O
	ATOM	1316	CB	ASP	A	90139.356	-3.565	4.287	1.00	0.00	C
	ATOM	1317	CG	ASP	A	90139.717	-5.038	4.282	1.00	0.00	C
	ATOM	1318	OD1	ASP	A	90140.547	-5.448	5.120	1.00	0.00	O
	ATOM	1319	OD2	ASP	A	90139.169	-5.780	3.441	1.00	0.00	O
15	ATOM	1320	H	ASP	A	90138.276	-1.246	3.577	1.00	0.00	H
	ATOM	1321	HA	ASP	A	90137.640	-4.068	3.111	1.00	0.00	H
	ATOM	1322	1HB	ASP	A	90140.030	-3.047	3.622	1.00	0.00	H
	ATOM	1323	2HB	ASP	A	90139.482	-3.185	5.290	1.00	0.00	H
	ATOM	1324	N	SER	A	91136.050	-4.367	4.972	1.00	0.00	N
20	ATOM	1325	CA	SER	A	91135.087	-4.563	6.049	1.00	0.00	C
	ATOM	1326	C	SER	A	91135.527	-5.694	6.974	1.00	0.00	C
	ATOM	1327	O	SER	A	91134.698	-6.422	7.519	1.00	0.00	O
	ATOM	1328	CB	SER	A	91133.703	-4.870	5.475	1.00	0.00	C
	ATOM	1329	OG	SER	A	91132.679	-4.405	6.337	1.00	0.00	O
25	ATOM	1330	H	SER	A	91136.017	-4.954	4.188	1.00	0.00	H
	ATOM	1331	HA	SER	A	91135.037	-3.649	6.618	1.00	0.00	H
	ATOM	1332	1HB	SER	A	91133.597	-4.383	4.517	1.00	0.00	H
	ATOM	1333	2HB	SER	A	91133.595	-5.937	5.350	1.00	0.00	H
	ATOM	1334	HG	SER	A	91131.982	-5.063	6.390	1.00	0.00	H

	ATOM	1335	N	ARG A	92136.837	-5.835	7.146	1.00	0.00	N
	ATOM	1336	CA	ARG A	92137.387	-6.876	8.006	1.00	0.00	C
	ATOM	1337	C	ARG A	92137.020	-6.628	9.465	1.00	0.00	C
	ATOM	1338	O	ARG A	92136.878	-7.568	10.247	1.00	0.00	O
5	ATOM	1339	CB	ARG A	92138.909	-6.940	7.854	1.00	0.00	C
	ATOM	1340	CG	ARG A	92139.365	-7.676	6.605	1.00	0.00	C
	ATOM	1341	CD	ARG A	92139.163	-9.177	6.737	1.00	0.00	C
	ATOM	1342	NE	ARG A	92137.960	-9.631	6.042	1.00	0.00	N
	ATOM	1343	CZ	ARG A	92137.717	-10.903	5.736	1.00	0.00	C
10	ATOM	1344	NH1	ARG A	92138.590	-11.850	6.059	1.00	0.00	N
	ATOM	1345	NH2	ARG A	92136.599	-11.230	5.103	1.00	0.00	N
	ATOM	1346	H	ARG A	92137.449	-5.222	6.686	1.00	0.00	H
	ATOM	1347	HA	ARG A	92136.964	-7.819	7.695	1.00	0.00	H
	ATOM	1348	1HB	ARG A	92139.298	-5.934	7.815	1.00	0.00	H
15	ATOM	1349	2HB	ARG A	92139.324	-7.444	8.715	1.00	0.00	H
	ATOM	1350	1HG	ARG A	92138.794	-7.320	5.761	1.00	0.00	H
	ATOM	1351	2HG	ARG A	92140.414	-7.475	6.444	1.00	0.00	H
	ATOM	1352	1HD	ARG A	92140.021	-9.681	6.317	1.00	0.00	H
	ATOM	1353	2HD	ARG A	92139.078	-9.426	7.785	1.00	0.00	H
20	ATOM	1354	HE	ARG A	92137.299	-8.953	5.792	1.00	0.00	H
	ATOM	1355	1HH1	ARG A	92139.436	-11.610	6.536	1.00	0.00	H
	ATOM	1356	2HH1	ARG A	92138.402	-12.804	5.826	1.00	0.00	H
	ATOM	1357	1HH2	ARG A	92135.937	-10.522	4.858	1.00	0.00	H
	ATOM	1358	2HH2	ARG A	92136.416	-12.187	4.873	1.00	0.00	H
25	ATOM	1359	N	PHE A	93136.868	-5.358	9.825	1.00	0.00	N
	ATOM	1360	CA	PHE A	93136.517	-4.988	11.192	1.00	0.00	C
	ATOM	1361	C	PHE A	93135.373	-3.979	11.206	1.00	0.00	C
	ATOM	1362	O	PHE A	93135.331	-3.085	12.051	1.00	0.00	O
	ATOM	1363	CB	PHE A	93137.733	-4.406	11.914	1.00	0.00	C

	ATOM	1364	CG	PHE A	93138.849	-5.395	12.101	1.00	0.00	C
	ATOM	1365	CD1	PHE A	93139.524	-5.913	11.008	1.00	0.00	C
	ATOM	1366	CD2	PHE A	93139.223	-5.804	13.372	1.00	0.00	C
	ATOM	1367	CE1	PHE A	93140.552	-6.822	11.178	1.00	0.00	C
5	ATOM	1368	CE2	PHE A	93140.248	-6.713	13.547	1.00	0.00	C
	ATOM	1369	CZ	PHE A	93140.913	-7.223	12.449	1.00	0.00	C
	ATOM	1370	H	PHE A	93136.994	-4.652	9.157	1.00	0.00	H
	ATOM	1371	HA	PHE A	93136.199	-5.882	11.705	1.00	0.00	H
	ATOM	1372	1HB	PHE A	93138.119	-3.576	11.342	1.00	0.00	H
10	ATOM	1373	2HB	PHE A	93137.431	-4.056	12.889	1.00	0.00	H
	ATOM	1374	HD1	PHE A	93139.242	-5.600	10.014	1.00	0.00	H
	ATOM	1375	HD2	PHE A	93138.702	-5.407	14.231	1.00	0.00	H
	ATOM	1376	HE1	PHE A	93141.070	-7.219	10.317	1.00	0.00	H
	ATOM	1377	HE2	PHE A	93140.529	-7.025	14.542	1.00	0.00	H
15	ATOM	1378	HZ	PHE A	93141.716	-7.934	12.584	1.00	0.00	H
	ATOM	1379	N	ALA A	94134.446	-4.128	10.266	1.00	0.00	N
	ATOM	1380	CA	ALA A	94133.302	-3.230	10.171	1.00	0.00	C
	ATOM	1381	C	ALA A	94132.101	-3.789	10.924	1.00	0.00	C
	ATOM	1382	O	ALA A	94131.718	-4.944	10.733	1.00	0.00	O
20	ATOM	1383	CB	ALA A	94132.944	-2.982	8.713	1.00	0.00	C
	ATOM	1384	H	ALA A	94134.534	-4.860	9.620	1.00	0.00	H
	ATOM	1385	HA	ALA A	94133.583	-2.285	10.613	1.00	0.00	H
	ATOM	1386	1HB	ALA A	94132.185	-3.686	8.404	1.00	0.00	H
	ATOM	1387	2HB	ALA A	94133.824	-3.111	8.100	1.00	0.00	H
25	ATOM	1388	3HB	ALA A	94132.570	-1.976	8.600	1.00	0.00	H
	ATOM	1389	N	SER A	95131.509	-2.964	11.783	1.00	0.00	N
	ATOM	1390	CA	SER A	95130.351	-3.376	12.566	1.00	0.00	C
	ATOM	1391	C	SER A	95129.056	-3.097	11.811	1.00	0.00	C
	ATOM	1392	O	SER A	95128.835	-1.988	11.325	1.00	0.00	O



	ATOM	1393	CB	SER A	95130.336	-2.652	13.913	1.00	0.00	C
	ATOM	1394	OG	SER A	95130.569	-1.263	13.749	1.00	0.00	O
	ATOM	1395	H	SER A	95131.861	-2.056	11.891	1.00	0.00	H
	ATOM	1396	HA	SER A	95130.430	-4.438	12.740	1.00	0.00	H
5	ATOM	1397	1HB	SER A	95129.372	-2.788	14.382	1.00	0.00	H
	ATOM	1398	2HB	SER A	95131.107	-3.062	14.548	1.00	0.00	H
	ATOM	1399	HG	SER A	95129.901	-0.892	13.169	1.00	0.00	H
	ATOM	1400	N	LEU A	96128.201	-4.111	11.717	1.00	0.00	N
	ATOM	1401	CA	LEU A	96126.927	-3.976	11.022	1.00	0.00	C
10	ATOM	1402	C	LEU A	96125.985	-5.119	11.386	1.00	0.00	C
	ATOM	1403	O	LEU A	96126.309	-6.290	11.190	1.00	0.00	O
	ATOM	1404	CB	LEU A	96127.150	-3.939	9.507	1.00	0.00	C
	ATOM	1405	CG	LEU A	96127.031	-2.553	8.870	1.00	0.00	C
	ATOM	1406	CD1	LEU A	96127.658	-2.548	7.484	1.00	0.00	C
15	ATOM	1407	CD2	LEU A	96125.573	-2.123	8.800	1.00	0.00	C
	ATOM	1408	H	LEU A	96128.433	-4.971	12.126	1.00	0.00	H
	ATOM	1409	HA	LEU A	96126.478	-3.044	11.333	1.00	0.00	H
	ATOM	1410	1HB	LEU A	96128.137	-4.324	9.301	1.00	0.00	H
	ATOM	1411	2HB	LEU A	96126.424	-4.588	9.040	1.00	0.00	H
20	ATOM	1412	HG	LEU A	96127.563	-1.837	9.479	1.00	0.00	H
	ATOM	1413	1HD1	LEU A	96127.346	-3.430	6.944	1.00	0.00	H
	ATOM	1414	2HD1	LEU A	96128.733	-2.544	7.576	1.00	0.00	H
	ATOM	1415	3HD1	LEU A	96127.339	-1.666	6.948	1.00	0.00	H
	ATOM	1416	1HD2	LEU A	96124.961	-2.970	8.524	1.00	0.00	H
25	ATOM	1417	2HD2	LEU A	96125.463	-1.344	8.060	1.00	0.00	H
	ATOM	1418	3HD2	LEU A	96125.261	-1.752	9.764	1.00	0.00	H
	ATOM	1419	N	GLN A	97124.818	-4.770	11.919	1.00	0.00	N
	ATOM	1420	CA	GLN A	97123.829	-5.767	12.312	1.00	0.00	C
	ATOM	1421	C	GLN A	97122.418	-5.307	11.952	1.00	0.00	C

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	ATOM	1422	O	GLN A	97121.781	-4.580	12.715	1.00	0.00	O
	ATOM	1423	CB	GLN A	97123.920	-6.040	13.814	1.00	0.00	C
	ATOM	1424	CG	GLN A	97124.007	-4.778	14.657	1.00	0.00	C
	ATOM	1425	CD	GLN A	97123.601	-5.011	16.100	1.00	0.00	C
5	ATOM	1426	OE1	GLN A	97122.523	-4.598	16.527	1.00	0.00	O
	ATOM	1427	NE2	GLN A	97124.464	-5.675	16.858	1.00	0.00	N
	ATOM	1428	H	GLN A	97124.618	-3.821	12.052	1.00	0.00	H
	ATOM	1429	HA	GLN A	97124.047	-6.679	11.777	1.00	0.00	H
	ATOM	1430	1HB	GLN A	97123.045	-6.593	14.122	1.00	0.00	H
10	ATOM	1431	2HB	GLN A	97124.798	-6.637	14.007	1.00	0.00	H
	ATOM	1432	1HG	GLN A	97125.024	-4.418	14.640	1.00	0.00	H
	ATOM	1433	2HG	GLN A	97123.354	-4.030	14.231	1.00	0.00	H
	ATOM	1434	1HE2	GLN A	97125.305	-5.974	16.450	1.00	0.00	H
	ATOM	1435	2HE2	GLN A	97124.228	-5.840	17.794	1.00	0.00	H
15	ATOM	1436	N	PRO A	98121.906	-5.725	10.780	1.00	0.00	N
	ATOM	1437	CA	PRO A	98120.563	-5.349	10.327	1.00	0.00	C
	ATOM	1438	C	PRO A	98119.501	-5.591	11.395	1.00	0.00	C
	ATOM	1439	O	PRO A	98118.481	-4.905	11.436	1.00	0.00	O
	ATOM	1440	CB	PRO A	98120.328	-6.262	9.121	1.00	0.00	C
20	ATOM	1441	CG	PRO A	98121.691	-6.560	8.604	1.00	0.00	C
	ATOM	1442	CD	PRO A	98122.594	-6.595	9.805	1.00	0.00	C
	ATOM	1443	HA	PRO A	98120.526	-4.315	10.012	1.00	0.00	H
	ATOM	1444	1HB	PRO A	98119.819	-7.160	9.441	1.00	0.00	H
	ATOM	1445	2HB	PRO A	98119.730	-5.745	8.386	1.00	0.00	H
25	ATOM	1446	1HG	PRO A	98121.692	-7.519	8.105	1.00	0.00	H
	ATOM	1447	2HG	PRO A	98122.004	-5.782	7.922	1.00	0.00	H
	ATOM	1448	1HD	PRO A	98122.681	-7.602	10.184	1.00	0.00	H
	ATOM	1449	2HD	PRO A	98123.568	-6.199	9.557	1.00	0.00	H
	ATOM	1450	N	SER A	99119.751	-6.571	12.257	1.00	0.00	N

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	ATOM	1451	CA	SER A	99118.818	-6.903	13.328	1.00	0.00	C
	ATOM	1452	C	SER A	99119.407	-6.553	14.690	1.00	0.00	C
	ATOM	1453	O	SER A	99120.557	-6.884	14.983	1.00	0.00	O
	ATOM	1454	CB	SER A	99118.462	-8.390	13.279	1.00	0.00	C
5	ATOM	1455	OG	SER A	99118.677	-8.924	11.984	1.00	0.00	O
	ATOM	1456	H	SER A	99120.583	-7.081	12.174	1.00	0.00	H
	ATOM	1457	HA	SER A	99117.920	-6.322	13.178	1.00	0.00	H
	ATOM	1458	1HB	SER A	99119.079	-8.929	13.983	1.00	0.00	H
	ATOM	1459	2HB	SER A	99117.422	-8.518	13.540	1.00	0.00	H
10	ATOM	1460	HG	SER A	99119.277	-9.671	12.041	1.00	0.00	H
	ATOM	1461	N	GLY A	100118.614	-5.885	15.520	1.00	0.00	N
	ATOM	1462	CA	GLY A	100119.076	-5.501	16.842	1.00	0.00	C
	ATOM	1463	C	GLY A	100118.068	-5.831	17.927	1.00	0.00	C
	ATOM	1464	O	GLY A	100116.862	-5.824	17.680	1.00	0.00	O
15	ATOM	1465	H	GLY A	100117.707	-5.647	15.233	1.00	0.00	H
	ATOM	1466	1HA	GLY A	100119.999	-6.020	17.052	1.00	0.00	H
	ATOM	1467	2HA	GLY A	100119.262	-4.437	16.850	1.00	0.00	H
	ATOM	1468	N	PRO A	101118.536	-6.127	19.153	1.00	0.00	N
	ATOM	1469	CA	PRO A	101117.654	-6.460	20.276	1.00	0.00	C
20	ATOM	1470	C	PRO A	101116.891	-5.245	20.792	1.00	0.00	C
	ATOM	1471	O	PRO A	101117.052	-4.840	21.944	1.00	0.00	O
	ATOM	1472	CB	PRO A	101118.620	-6.980	21.341	1.00	0.00	C
	ATOM	1473	CG	PRO A	101119.916	-6.311	21.034	1.00	0.00	C
	ATOM	1474	CD	PRO A	101119.960	-6.160	19.538	1.00	0.00	C
25	ATOM	1475	HA	PRO A	101116.954	-7.238	20.010	1.00	0.00	H
	ATOM	1476	1HB	PRO A	101118.258	-6.710	22.322	1.00	0.00	H
	ATOM	1477	2HB	PRO A	101118.705	-8.054	21.263	1.00	0.00	H
	ATOM	1478	1HG	PRO A	101119.950	-5.343	21.511	1.00	0.00	H
	ATOM	1479	2HG	PRO A	101120.736	-6.926	21.373	1.00	0.00	H

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	ATOM	1480	1HD	PRO A	101120.453	-5.238	19.267	1.00	0.00	H
	ATOM	1481	2HD	PRO A	101120.461	-7.003	19.088	1.00	0.00	H
	ATOM	1482	N	SER A	102116.057	-4.667	19.933	1.00	0.00	N
	ATOM	1483	CA	SER A	102115.268	-3.498	20.303	1.00	0.00	C
5	ATOM	1484	C	SER A	102113.913	-3.913	20.867	1.00	0.00	C
	ATOM	1485	O	SER A	102113.606	-3.648	22.030	1.00	0.00	O
	ATOM	1486	CB	SER A	102115.071	-2.585	19.091	1.00	0.00	C
	ATOM	1487	OG	SER A	102114.531	-1.334	19.478	1.00	0.00	O
	ATOM	1488	H	SER A	102115.971	-5.036	19.029	1.00	0.00	H
10	ATOM	1489	HA	SER A	102115.812	-2.959	21.064	1.00	0.00	H
	ATOM	1490	1HB	SER A	102116.024	-2.418	18.611	1.00	0.00	H
	ATOM	1491	2HB	SER A	102114.394	-3.057	18.394	1.00	0.00	H
	ATOM	1492	HG	SER A	102115.179	-0.642	19.319	1.00	0.00	H
	ATOM	1493	N	SER A	103113.105	-4.563	20.036	1.00	0.00	N
15	ATOM	1494	CA	SER A	103111.783	-5.015	20.452	1.00	0.00	C
	ATOM	1495	C	SER A	103111.266	-6.112	19.527	1.00	0.00	C
	ATOM	1496	O	SER A	103111.769	-6.290	18.418	1.00	0.00	O
	ATOM	1497	CB	SER A	103110.802	-3.840	20.466	1.00	0.00	C
	ATOM	1498	OG	SER A	103111.343	-2.733	21.164	1.00	0.00	O
20	ATOM	1499	H	SER A	103113.407	-4.745	19.121	1.00	0.00	H
	ATOM	1500	HA	SER A	103111.868	-5.413	21.452	1.00	0.00	H
	ATOM	1501	1HB	SER A	103110.587	-3.541	19.452	1.00	0.00	H
	ATOM	1502	2HB	SER A	103109.887	-4.146	20.952	1.00	0.00	H
	ATOM	1503	HG	SER A	103111.681	-3.022	22.014	1.00	0.00	H
25	ATOM	1504	N	GLY A	104110.261	-6.846	19.992	1.00	0.00	N
	ATOM	1505	CA	GLY A	104109.694	-7.916	19.194	1.00	0.00	C
	ATOM	1506	C	GLY A	104108.344	-8.374	19.712	1.00	0.00	C
	ATOM	1507	O	GLY A	104108.159	-9.597	19.890	1.00	0.00	O
	ATOM	1508	OXT	GLY A	104107.472	-7.510	19.941	1.00	0.00	O

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ATOM 1509 H GLY A 104109.901 -6.658 20.885 1.00 0.00 H  
ATOM 1510 1HA GLY A 104109.578 -7.571 18.178 1.00 0.00 H  
ATOM 1511 2HA GLY A 104110.373 -8.756 19.203 1.00 0.00 H  
TER 1512 GLY A 104

5 ENDMDL

## 立体構造座標表 6

ATOM 1 N GLY A 1112.318 9.750 -2.270 1.00 0.00 N  
ATOM 2 CA GLY A 1111.240 9.201 -3.139 1.00 0.00 C  
10 ATOM 3 C GLY A 1110.691 7.886 -2.623 1.00 0.00 C  
ATOM 4 O GLY A 1109.480 7.663 -2.635 1.00 0.00 O  
ATOM 5 1H GLY A 1113.178 9.172 -2.358 1.00 0.00 H  
ATOM 6 2H GLY A 1112.012 9.746 -1.276 1.00 0.00 H  
ATOM 7 3H GLY A 1112.539 10.727 -2.549 1.00 0.00 H  
15 ATOM 8 1HA GLY A 1110.435 9.918 -3.192 1.00 0.00 H  
ATOM 9 2HA GLY A 1111.637 9.047 -4.132 1.00 0.00 H  
ATOM10 N SER A 2111.584 7.013 -2.167 1.00 0.00 N  
ATOM11 CA SER A 2111.182 5.712 -1.643 1.00 0.00 C  
ATOM12 C SER A 2112.008 5.342 -0.415 1.00 0.00 C  
20 ATOM13 O SER A 2111.463 4.944 0.615 1.00 0.00 O  
ATOM14 CB SER A 2111.337 4.636 -2.718 1.00 0.00 C  
ATOM15 OG SER A 2110.409 4.831 -3.772 1.00 0.00 O  
ATOM16 H SER A 2112.534 7.249 -2.182 1.00 0.00 H  
ATOM17 HA SER A 2110.143 5.776 -1.357 1.00 0.00 H  
25 ATOM18 1HB SER A 2112.337 4.677 -3.125 1.00 0.00 H  
ATOM19 2HB SER A 2111.166 3.664 -2.280 1.00 0.00 H  
ATOM20 HG SER A 2109.545 5.031 -3.405 1.00 0.00 H  
ATOM21 N SER A 3113.325 5.477 -0.531 1.00 0.00 N  
ATOM22 CA SER A 3114.226 5.157 0.571 1.00 0.00 C

	ATOM23	C	SER A	3114.354	6.336	1.530	1.00	0.00	C
	ATOM24	O	SER A	3114.036	6.223	2.713	1.00	0.00	O
	ATOM25	CB	SER A	3115.604	4.770	0.033	1.00	0.00	C
	ATOM26	OG	SER A	3116.188	5.838	-0.692	1.00	0.00	O
5	ATOM27	H	SER A	3113.700	5.799	-1.377	1.00	0.00	H
	ATOM28	HA	SER A	3113.809	4.316	1.105	1.00	0.00	H
	ATOM29	1HB	SER A	3116.252	4.515	0.859	1.00	0.00	H
	ATOM30	2HB	SER A	3115.506	3.917	-0.623	1.00	0.00	H
	ATOM31	HG	SER A	3117.117	5.913	-0.460	1.00	0.00	H
10	ATOM32	N	GLY A	4114.820	7.466	1.009	1.00	0.00	N
	ATOM33	CA	GLY A	4114.983	8.649	1.833	1.00	0.00	C
	ATOM34	C	GLY A	4116.174	8.550	2.765	1.00	0.00	C
	ATOM35	O	GLY A	4116.069	8.004	3.863	1.00	0.00	O
	ATOM36	H	GLY A	4115.058	7.497	0.060	1.00	0.00	H
15	ATOM37	1HA	GLY A	4115.113	9.507	1.190	1.00	0.00	H
	ATOM38	2HA	GLY A	4114.089	8.787	2.424	1.00	0.00	H
	ATOM39	N	SER A	5117.312	9.078	2.326	1.00	0.00	N
	ATOM40	CA	SER A	5118.529	9.046	3.127	1.00	0.00	C
	ATOM41	C	SER A	5119.241	10.395	3.092	1.00	0.00	C
20	ATOM42	O	SER A	5119.252	11.074	2.066	1.00	0.00	O
	ATOM43	CB	SER A	5119.468	7.948	2.623	1.00	0.00	C
	ATOM44	OG	SER A	5119.748	8.109	1.244	1.00	0.00	O
	ATOM45	H	SER A	5117.334	9.500	1.441	1.00	0.00	H
	ATOM46	HA	SER A	5118.249	8.827	4.147	1.00	0.00	H
25	ATOM47	1HB	SER A	5120.397	7.991	3.173	1.00	0.00	H
	ATOM48	2HB	SER A	5119.006	6.984	2.774	1.00	0.00	H
	ATOM49	HG	SER A	5120.660	7.865	1.070	1.00	0.00	H
	ATOM50	N	SER A	6119.832	10.776	4.219	1.00	0.00	N
	ATOM51	CA	SER A	6120.546	12.044	4.317	1.00	0.00	C

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	ATOM52	C	SER A	6121.965	11.832	4.834	1.00	0.00	C
	ATOM53	O	SER A	6122.531	12.701	5.498	1.00	0.00	O
	ATOM54	CB	SER A	6119.794	13.006	5.238	1.00	0.00	C
	ATOM55	OG	SER A	6118.457	13.187	4.805	1.00	0.00	O
5	ATOM56	H	SER A	6119.789	10.190	5.003	1.00	0.00	H
	ATOM57	HA	SER A	6120.597	12.473	3.327	1.00	0.00	H
	ATOM58	1HB	SER A	6119.782	12.606	6.240	1.00	0.00	H
	ATOM59	2HB	SER A	6120.292	13.964	5.238	1.00	0.00	H
	ATOM60	HG	SER A	6118.443	13.319	3.854	1.00	0.00	H
10	ATOM61	N	GLY A	7122.535	10.671	4.527	1.00	0.00	N
	ATOM62	CA	GLY A	7123.883	10.367	4.969	1.00	0.00	C
	ATOM63	C	GLY A	7124.017	8.950	5.488	1.00	0.00	C
	ATOM64	O	GLY A	7123.400	8.587	6.490	1.00	0.00	O
	ATOM65	H	GLY A	7122.036	10.016	3.995	1.00	0.00	H
15	ATOM66	1HA	GLY A	7124.561	10.500	4.139	1.00	0.00	H
	ATOM67	2HA	GLY A	7124.155	11.054	5.756	1.00	0.00	H
	ATOM68	N	LEU A	8124.825	8.144	4.805	1.00	0.00	N
	ATOM69	CA	LEU A	8125.038	6.758	5.203	1.00	0.00	C
	ATOM70	C	LEU A	8126.306	6.621	6.038	1.00	0.00	C
20	ATOM71	O	LEU A	8126.247	6.510	7.263	1.00	0.00	O
	ATOM72	CB	LEU A	8125.123	5.858	3.969	1.00	0.00	C
	ATOM73	CG	LEU A	8123.782	5.319	3.467	1.00	0.00	C
	ATOM74	CD1	LEU A	8123.953	4.629	2.123	1.00	0.00	C
	ATOM75	CD2	LEU A	8123.178	4.364	4.486	1.00	0.00	C
25	ATOM76	H	LEU A	8125.289	8.492	4.014	1.00	0.00	H
	ATOM77	HA	LEU A	8124.196	6.453	5.801	1.00	0.00	H
	ATOM78	1HB	LEU A	8125.583	6.421	3.169	1.00	0.00	H
	ATOM79	2HB	LEU A	8125.757	5.017	4.205	1.00	0.00	H
	ATOM80	HG	LEU A	8123.097	6.144	3.333	1.00	0.00	H

	ATOM81	1HD1	LEU	A	8123.170	3.896	1.992	1.00	0.00	H
	ATOM82	2HD1	LEU	A	8124.915	4.140	2.089	1.00	0.00	H
	ATOM83	3HD1	LEU	A	8123.893	5.362	1.331	1.00	0.00	H
	ATOM84	1HD2	LEU	A	8123.006	4.890	5.414	1.00	0.00	H
5	ATOM85	2HD2	LEU	A	8123.859	3.544	4.658	1.00	0.00	H
	ATOM86	3HD2	LEU	A	8122.241	3.982	4.110	1.00	0.00	H
	ATOM87	N	ALA	A	9127.450	6.628	5.367	1.00	0.00	N
	ATOM88	CA	ALA	A	9128.735	6.505	6.044	1.00	0.00	C
	ATOM89	C	ALA	A	9129.891	6.773	5.085	1.00	0.00	C
10	ATOM90	O	ALA	A	9130.601	5.854	4.679	1.00	0.00	O
	ATOM91	CB	ALA	A	9128.872	5.123	6.665	1.00	0.00	C
	ATOM92	H	ALA	A	9127.429	6.720	4.392	1.00	0.00	H
	ATOM93	HA	ALA	A	9128.764	7.235	6.839	1.00	0.00	H
	ATOM94	1HB	ALA	A	9127.891	4.724	6.876	1.00	0.00	H
15	ATOM95	2HB	ALA	A	9129.436	5.195	7.583	1.00	0.00	H
	ATOM96	3HB	ALA	A	9129.387	4.468	5.978	1.00	0.00	H
	ATOM97	N	MET	A	10130.074	8.041	4.727	1.00	0.00	N
	ATOM98	CA	MET	A	10131.144	8.429	3.816	1.00	0.00	C
	ATOM99	C	MET	A	10131.191	9.946	3.646	1.00	0.00	C
20	ATOM	100	O	MET	A	10130.954	10.465	2.554	1.00	0.00 O
	ATOM	101	CB	MET	A	10130.955	7.754	2.457	1.00	0.00 C
	ATOM	102	CG	MET	A	10129.539	7.863	1.913	1.00	0.00 C
	ATOM	103	SD	MET	A	10129.407	9.023	0.539	1.00	0.00 S
	ATOM	104	CE	MET	A	10129.163	7.897	-0.833	1.00	0.00 C
25	ATOM	105	H	MET	A	10129.476	8.729	5.084	1.00	0.00 H
	ATOM	106	HA	MET	A	10132.078	8.099	4.245	1.00	0.00 H
	ATOM	107	1HB	MET	A	10131.628	8.210	1.746	1.00	0.00 H
	ATOM	108	2HB	MET	A	10131.202	6.707	2.551	1.00	0.00 H
	ATOM	109	1HG	MET	A	10129.223	6.888	1.573	1.00	0.00 H



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	ATOM	110	2HG	MET A	10128.887	8.193	2.709	1.00	0.00	H
	ATOM	111	1HE	MET A	10130.124	7.587	-1.218	1.00	0.00	H
	ATOM	112	2HE	MET A	10128.607	8.395	-1.613	1.00	0.00	H
	ATOM	113	3HE	MET A	10128.615	7.031	-0.494	1.00	0.00	H
5	ATOM	114	N	PRO A	11131.502	10.682	4.727	1.00	0.00	N
	ATOM	115	CA	PRO A	11131.579	12.145	4.688	1.00	0.00	C
	ATOM	116	C	PRO A	11132.593	12.645	3.660	1.00	0.00	C
	ATOM	117	O	PRO A	11132.293	13.544	2.875	1.00	0.00	O
	ATOM	118	CB	PRO A	11132.019	12.534	6.104	1.00	0.00	C
10	ATOM	119	CG	PRO A	11131.698	11.352	6.955	1.00	0.00	C
	ATOM	120	CD	PRO A	11131.801	10.145	6.065	1.00	0.00	C
	ATOM	121	HA	PRO A	11130.615	12.582	4.476	1.00	0.00	H
	ATOM	122	1HB	PRO A	11133.076	12.749	6.109	1.00	0.00	H
	ATOM	123	2HB	PRO A	11131.469	13.407	6.424	1.00	0.00	H
15	ATOM	124	1HG	PRO A	11132.411	11.280	7.761	1.00	0.00	H
	ATOM	125	2HG	PRO A	11130.696	11.444	7.348	1.00	0.00	H
	ATOM	126	1HD	PRO A	11132.798	9.733	6.102	1.00	0.00	H
	ATOM	127	2HD	PRO A	11131.072	9.402	6.353	1.00	0.00	H
	ATOM	128	N	PRO A	12133.809	12.066	3.642	1.00	0.00	N
20	ATOM	129	CA	PRO A	12134.853	12.465	2.692	1.00	0.00	C
	ATOM	130	C	PRO A	12134.377	12.375	1.247	1.00	0.00	C
	ATOM	131	O	PRO A	12134.926	13.028	0.359	1.00	0.00	O
	ATOM	132	CB	PRO A	12135.981	11.461	2.945	1.00	0.00	C
	ATOM	133	CG	PRO A	12135.751	10.969	4.331	1.00	0.00	C
25	ATOM	134	CD	PRO A	12134.262	10.980	4.532	1.00	0.00	C
	ATOM	135	HA	PRO A	12135.206	13.467	2.892	1.00	0.00	H
	ATOM	136	1HB	PRO A	12135.918	10.658	2.225	1.00	0.00	H
	ATOM	137	2HB	PRO A	12136.935	11.957	2.856	1.00	0.00	H
	ATOM	138	1HG	PRO A	12136.135	9.965	4.434	1.00	0.00	H

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	ATOM	139	2HG	PRO	A	12136.229	11.629	5.040	1.00	0.00	H
	ATOM	140	1HD	PRO	A	12133.834	10.034	4.236	1.00	0.00	H
	ATOM	141	2HD	PRO	A	12134.023	11.198	5.561	1.00	0.00	H
	ATOM	142	N	GLY	A	13133.351	11.559	1.017	1.00	0.00	N
5	ATOM	143	CA	GLY	A	13132.818	11.397	-0.322	1.00	0.00	C
	ATOM	144	C	GLY	A	13133.068	10.012	-0.886	1.00	0.00	C
	ATOM	145	O	GLY	A	13132.330	9.545	-1.754	1.00	0.00	O
	ATOM	146	H	GLY	A	13132.954	11.064	1.765	1.00	0.00	H
	ATOM	147	1HA	GLY	A	13131.753	11.577	-0.298	1.00	0.00	H
10	ATOM	148	2HA	GLY	A	13133.278	12.127	-0.972	1.00	0.00	H
	ATOM	149	N	ASN	A	14134.112	9.353	-0.393	1.00	0.00	N
	ATOM	150	CA	ASN	A	14134.459	8.014	-0.854	1.00	0.00	C
	ATOM	151	C	ASN	A	14133.299	7.045	-0.640	1.00	0.00	C
	ATOM	152	O	ASN	A	14132.195	7.453	-0.284	1.00	0.00	O
15	ATOM	153	CB	ASN	A	14135.703	7.506	-0.122	1.00	0.00	C
	ATOM	154	CG	ASN	A	14136.823	8.529	-0.108	1.00	0.00	C
	ATOM	155	OD1	ASN	A	14136.609	9.697	0.216	1.00	0.00	O
	ATOM	156	ND2	ASN	A	14138.026	8.093	-0.460	1.00	0.00	N
	ATOM	157	H	ASN	A	14134.664	9.778	0.297	1.00	0.00	H
20	ATOM	158	HA	ASN	A	14134.672	8.072	-1.911	1.00	0.00	H
	ATOM	159	1HB	ASN	A	14135.442	7.272	0.899	1.00	0.00	H
	ATOM	160	2HB	ASN	A	14136.062	6.613	-0.612	1.00	0.00	H
	ATOM	161	1HD2	ASN	A	14138.123	7.149	-0.706	1.00	0.00	H
	ATOM	162	2HD2	ASN	A	14138.769	8.733	-0.460	1.00	0.00	H
25	ATOM	163	N	SER	A	15133.559	5.761	-0.861	1.00	0.00	N
	ATOM	164	CA	SER	A	15132.538	4.734	-0.693	1.00	0.00	C
	ATOM	165	C	SER	A	15132.234	4.506	0.785	1.00	0.00	C
	ATOM	166	O	SER	A	15131.163	4.867	1.271	1.00	0.00	O
	ATOM	167	CB	SER	A	15132.989	3.423	-1.341	1.00	0.00	C

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	ATOM	168	OG	SER A	15132.025	2.403	-1.154	1.00	0.00	O
	ATOM	169	H	SER A	15134.460	5.496	-1.144	1.00	0.00	H
	ATOM	170	HA	SER A	15131.639	5.077	-1.184	1.00	0.00	H
	ATOM	171	1HB	SER A	15133.130	3.578	-2.400	1.00	0.00	H
5	ATOM	172	2HB	SER A	15133.921	3.108	-0.896	1.00	0.00	H
	ATOM	173	HG	SER A	15132.121	2.027	-0.276	1.00	0.00	H
	ATOM	174	N	HIS A	16133.184	3.902	1.492	1.00	0.00	N
	ATOM	175	CA	HIS A	16133.019	3.626	2.914	1.00	0.00	C
	ATOM	176	C	HIS A	16133.864	4.578	3.754	1.00	0.00	C
10	ATOM	177	O	HIS A	16133.441	5.026	4.820	1.00	0.00	O
	ATOM	178	CB	HIS A	16133.401	2.176	3.221	1.00	0.00	C
	ATOM	179	CG	HIS A	16132.222	1.262	3.354	1.00	0.00	C
	ATOM	180	ND1	HIS A	16131.448	1.193	4.493	1.00	0.00	N
	ATOM	181	CD2	HIS A	16131.686	0.375	2.482	1.00	0.00	C
15	ATOM	182	CE1	HIS A	16130.487	0.303	4.316	1.00	0.00	C
	ATOM	183	NE2	HIS A	16130.610	-0.207	3.104	1.00	0.00	N
	ATOM	184	H	HIS A	16134.016	3.638	1.047	1.00	0.00	H
	ATOM	185	HA	HIS A	16131.978	3.775	3.162	1.00	0.00	H
	ATOM	186	1HB	HIS A	16134.024	1.800	2.424	1.00	0.00	H
20	ATOM	187	2HB	HIS A	16133.953	2.144	4.149	1.00	0.00	H
	ATOM	188	HD1	HIS A	16131.582	1.718	5.309	1.00	0.00	H
	ATOM	189	HD2	HIS A	16132.040	0.165	1.482	1.00	0.00	H
	ATOM	190	HE1	HIS A	16129.730	0.038	5.039	1.00	0.00	H
	ATOM	191	HE2	HIS A	16129.981	-0.833	2.688	1.00	0.00	H
25	ATOM	192	N	GLY A	17135.063	4.882	3.267	1.00	0.00	N
	ATOM	193	CA	GLY A	17135.949	5.778	3.985	1.00	0.00	C
	ATOM	194	C	GLY A	17137.401	5.349	3.901	1.00	0.00	C
	ATOM	195	O	GLY A	17138.064	5.173	4.923	1.00	0.00	O
	ATOM	196	H	GLY A	17135.348	4.495	2.413	1.00	0.00	H

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	ATOM	197	1HA	GLY A	17135.854	6.771	3.570	1.00	0.00	H
	ATOM	198	2HA	GLY A	17135.654	5.805	5.024	1.00	0.00	H
	ATOM	199	N	LEU A	18137.897	5.182	2.678	1.00	0.00	N
	ATOM	200	CA	LEU A	18139.279	4.771	2.465	1.00	0.00	C
5	ATOM	201	C	LEU A	18140.246	5.872	2.888	1.00	0.00	C
	ATOM	202	O	LEU A	18140.497	6.814	2.136	1.00	0.00	O
	ATOM	203	CB	LEU A	18139.506	4.415	0.994	1.00	0.00	C
	ATOM	204	CG	LEU A	18138.484	3.445	0.398	1.00	0.00	C
	ATOM	205	CD1	LEU A	18138.481	3.540	-1.120	1.00	0.00	C
10	ATOM	206	CD2	LEU A	18138.781	2.021	0.844	1.00	0.00	C
	ATOM	207	H	LEU A	18137.318	5.338	1.903	1.00	0.00	H
	ATOM	208	HA	LEU A	18139.462	3.895	3.070	1.00	0.00	H
	ATOM	209	1HB	LEU A	18139.484	5.328	0.417	1.00	0.00	H
	ATOM	210	2HB	LEU A	18140.486	3.972	0.900	1.00	0.00	H
15	ATOM	211	HG	LEU A	18137.498	3.709	0.751	1.00	0.00	H
	ATOM	212	1HD1	LEU A	18138.860	4.506	-1.421	1.00	0.00	H
	ATOM	213	2HD1	LEU A	18137.472	3.419	-1.485	1.00	0.00	H
	ATOM	214	3HD1	LEU A	18139.109	2.763	-1.530	1.00	0.00	H
	ATOM	215	1HD2	LEU A	18139.591	1.619	0.254	1.00	0.00	H
20	ATOM	216	2HD2	LEU A	18137.899	1.411	0.709	1.00	0.00	H
	ATOM	217	3HD2	LEU A	18139.061	2.021	1.887	1.00	0.00	H
	ATOM	218	N	GLU A	19140.783	5.748	4.096	1.00	0.00	N
	ATOM	219	CA	GLU A	19141.722	6.733	4.621	1.00	0.00	C
	ATOM	220	C	GLU A	19142.809	6.061	5.452	1.00	0.00	C
25	ATOM	221	O	GLU A	19142.810	4.843	5.622	1.00	0.00	O
	ATOM	222	CB	GLU A	19140.984	7.772	5.467	1.00	0.00	C
	ATOM	223	CG	GLU A	19140.233	7.174	6.645	1.00	0.00	C
	ATOM	224	CD	GLU A	19139.754	8.226	7.625	1.00	0.00	C
	ATOM	225	OE1	GLU A	19140.533	9.155	7.928	1.00	0.00	O

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	ATOM	226	OE2	GLU	A	19138.599	8.123	8.091	1.00	0.00	O
	ATOM	227	H	GLU	A	19140.544	4.976	4.650	1.00	0.00	H
	ATOM	228	HA	GLU	A	19142.184	7.230	3.779	1.00	0.00	H
	ATOM	229	1HB	GLU	A	19141.702	8.483	5.849	1.00	0.00	H
5	ATOM	230	2HB	GLU	A	19140.274	8.291	4.841	1.00	0.00	H
	ATOM	231	1HG	GLU	A	19139.375	6.635	6.272	1.00	0.00	H
	ATOM	232	2HG	GLU	A	19140.888	6.490	7.164	1.00	0.00	H
	ATOM	233	N	VAL	A	20143.732	6.865	5.969	1.00	0.00	N
	ATOM	234	CA	VAL	A	20144.825	6.349	6.785	1.00	0.00	C
10	ATOM	235	C	VAL	A	20144.297	5.620	8.015	1.00	0.00	C
	ATOM	236	O	VAL	A	20143.530	6.181	8.799	1.00	0.00	O
	ATOM	237	CB	VAL	A	20145.770	7.479	7.235	1.00	0.00	C
	ATOM	238	CG1	VAL	A	20146.993	6.908	7.939	1.00	0.00	C
	ATOM	239	CG2	VAL	A	20146.181	8.337	6.049	1.00	0.00	C
15	ATOM	240	H	VAL	A	20143.678	7.829	5.798	1.00	0.00	H
	ATOM	241	HA	VAL	A	20145.391	5.654	6.182	1.00	0.00	H
	ATOM	242	HB	VAL	A	20145.240	8.105	7.938	1.00	0.00	H
	ATOM	243	1HG1	VAL	A	20146.795	6.830	8.997	1.00	0.00	H
	ATOM	244	2HG1	VAL	A	20147.838	7.559	7.777	1.00	0.00	H
20	ATOM	245	3HG1	VAL	A	20147.211	5.928	7.540	1.00	0.00	H
	ATOM	246	1HG2	VAL	A	20145.398	9.046	5.828	1.00	0.00	H
	ATOM	247	2HG2	VAL	A	20146.348	7.705	5.189	1.00	0.00	H
	ATOM	248	3HG2	VAL	A	20147.091	8.868	6.287	1.00	0.00	H
	ATOM	249	N	GLY	A	21144.711	4.369	8.179	1.00	0.00	N
25	ATOM	250	CA	GLY	A	21144.269	3.583	9.316	1.00	0.00	C
	ATOM	251	C	GLY	A	21143.228	2.548	8.939	1.00	0.00	C
	ATOM	252	O	GLY	A	21143.210	1.447	9.489	1.00	0.00	O
	ATOM	253	H	GLY	A	21145.322	3.975	7.522	1.00	0.00	H
	ATOM	254	1HA	GLY	A	21145.123	3.080	9.745	1.00	0.00	H

	ATOM	255	2HA	GLY A	21143.847	4.248	10.056	1.00	0.00	H
	ATOM	256	N	SER A	22142.359	2.901	7.997	1.00	0.00	N
	ATOM	257	CA	SER A	22141.310	1.995	7.546	1.00	0.00	C
	ATOM	258	C	SER A	22141.877	0.922	6.622	1.00	0.00	C
5	ATOM	259	O	SER A	22142.764	1.192	5.812	1.00	0.00	O
	ATOM	260	CB	SER A	22140.208	2.774	6.826	1.00	0.00	C
	ATOM	261	OG	SER A	22139.268	3.299	7.747	1.00	0.00	O
	ATOM	262	H	SER A	22142.425	3.793	7.596	1.00	0.00	H
	ATOM	263	HA	SER A	22140.889	1.516	8.417	1.00	0.00	H
10	ATOM	264	1HB	SER A	22140.649	3.592	6.276	1.00	0.00	H
	ATOM	265	2HB	SER A	22139.694	2.116	6.141	1.00	0.00	H
	ATOM	266	HG	SER A	22138.475	3.569	7.277	1.00	0.00	H
	ATOM	267	N	LEU A	23141.359	-0.295	6.749	1.00	0.00	N
	ATOM	268	CA	LEU A	23141.815	-1.410	5.924	1.00	0.00	C
15	ATOM	269	C	LEU A	23141.296	-1.278	4.496	1.00	0.00	C
	ATOM	270	O	LEU A	23140.234	-0.702	4.261	1.00	0.00	O
	ATOM	271	CB	LEU A	23141.353	-2.738	6.526	1.00	0.00	C
	ATOM	272	CG	LEU A	23141.931	-3.059	7.905	1.00	0.00	C
	ATOM	273	CD1	LEU A	23140.954	-3.903	8.709	1.00	0.00	C
20	ATOM	274	CD2	LEU A	23143.268	-3.773	7.769	1.00	0.00	C
	ATOM	275	H	LEU A	23140.655	-0.449	7.412	1.00	0.00	H
	ATOM	276	HA	LEU A	23142.894	-1.388	5.907	1.00	0.00	H
	ATOM	277	1HB	LEU A	23140.276	-2.718	6.605	1.00	0.00	H
	ATOM	278	2HB	LEU A	23141.633	-3.531	5.850	1.00	0.00	H
25	ATOM	279	HG	LEU A	23142.096	-2.137	8.443	1.00	0.00	H
	ATOM	280	1HD1	LEU A	23140.921	-4.902	8.302	1.00	0.00	H
	ATOM	281	2HD1	LEU A	23139.970	-3.460	8.659	1.00	0.00	H
	ATOM	282	3HD1	LEU A	23141.277	-3.944	9.739	1.00	0.00	H
	ATOM	283	1HD2	LEU A	23143.908	-3.500	8.594	1.00	0.00	H

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	ATOM	284	2HD2	LEU A	23143.736	-3.485	6.840	1.00	0.00	H
	ATOM	285	3HD2	LEU A	23143.107	-4.841	7.776	1.00	0.00	H
	ATOM	286	N	ALA A	24142.055	-1.814	3.546	1.00	0.00	N
	ATOM	287	CA	ALA A	24141.672	-1.757	2.140	1.00	0.00	C
5	ATOM	288	C	ALA A	24142.245	-2.941	1.367	1.00	0.00	C
	ATOM	289	O	ALA A	24143.206	-3.573	1.804	1.00	0.00	O
	ATOM	290	CB	ALA A	24142.135	-0.447	1.520	1.00	0.00	C
	ATOM	291	H	ALA A	24142.890	-2.260	3.795	1.00	0.00	H
	ATOM	292	HA	ALA A	24140.593	-1.793	2.086	1.00	0.00	H
10	ATOM	293	1HB	ALA A	24143.026	-0.105	2.025	1.00	0.00	H
	ATOM	294	2HB	ALA A	24141.356	0.295	1.623	1.00	0.00	H
	ATOM	295	3HB	ALA A	24142.350	-0.601	0.473	1.00	0.00	H
	ATOM	296	N	GLU A	25141.647	-3.236	0.217	1.00	0.00	N
	ATOM	297	CA	GLU A	25142.098	-4.344	-0.617	1.00	0.00	C
15	ATOM	298	C	GLU A	25142.441	-3.863	-2.023	1.00	0.00	C
	ATOM	299	O	GLU A	25141.810	-2.945	-2.547	1.00	0.00	O
	ATOM	300	CB	GLU A	25141.023	-5.430	-0.684	1.00	0.00	C
	ATOM	301	CG	GLU A	25141.523	-6.747	-1.252	1.00	0.00	C
	ATOM	302	CD	GLU A	25140.399	-7.623	-1.770	1.00	0.00	C
20	ATOM	303	OE1	GLU A	25140.407	-7.947	-2.976	1.00	0.00	O
	ATOM	304	OE2	GLU A	25139.511	-7.986	-0.970	1.00	0.00	O
	ATOM	305	H	GLU A	25140.885	-2.695	-0.079	1.00	0.00	H
	ATOM	306	HA	GLU A	25142.987	-4.758	-0.164	1.00	0.00	H
	ATOM	307	1HB	GLU A	25140.646	-5.611	0.311	1.00	0.00	H
25	ATOM	308	2HB	GLU A	25140.212	-5.078	-1.306	1.00	0.00	H
	ATOM	309	1HG	GLU A	25142.200	-6.540	-2.066	1.00	0.00	H
	ATOM	310	2HG	GLU A	25142.048	-7.283	-0.475	1.00	0.00	H
	ATOM	311	N	VAL A	26143.445	-4.489	-2.629	1.00	0.00	N
	ATOM	312	CA	VAL A	26143.872	-4.124	-3.974	1.00	0.00	C

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	ATOM	313	C	VAL A	26143.444	-5.178	-4.990	1.00	0.00	C
	ATOM	314	O	VAL A	26143.415	-6.370	-4.688	1.00	0.00	O
	ATOM	315	CB	VAL A	26145.399	-3.944	-4.051	1.00	0.00	C
	ATOM	316	CG1	VAL A	26145.804	-3.375	-5.401	1.00	0.00	C
5	ATOM	317	CG2	VAL A	26145.890	-3.054	-2.919	1.00	0.00	C
	ATOM	318	H	VAL A	26143.910	-5.212	-2.160	1.00	0.00	H
	ATOM	319	HA	VAL A	26143.406	-3.183	-4.229	1.00	0.00	H
	ATOM	320	HB	VAL A	26145.861	-4.915	-3.942	1.00	0.00	H
	ATOM	321	1HG1	VAL A	26146.882	-3.336	-5.467	1.00	0.00	H
10	ATOM	322	2HG1	VAL A	26145.401	-2.378	-5.506	1.00	0.00	H
	ATOM	323	3HG1	VAL A	26145.418	-4.005	-6.188	1.00	0.00	H
	ATOM	324	1HG2	VAL A	26145.976	-3.637	-2.013	1.00	0.00	H
	ATOM	325	2HG2	VAL A	26145.186	-2.250	-2.763	1.00	0.00	H
	ATOM	326	3HG2	VAL A	26146.855	-2.643	-3.175	1.00	0.00	H
15	ATOM	327	N	LYS A	27143.116	-4.729	-6.197	1.00	0.00	N
	ATOM	328	CA	LYS A	27142.690	-5.633	-7.259	1.00	0.00	C
	ATOM	329	C	LYS A	27143.880	-6.082	-8.101	1.00	0.00	C
	ATOM	330	O	LYS A	27144.102	-5.577	-9.201	1.00	0.00	O
	ATOM	331	CB	LYS A	27141.647	-4.954	-8.149	1.00	0.00	C
20	ATOM	332	CG	LYS A	27140.301	-4.761	-7.470	1.00	0.00	C
	ATOM	333	CD	LYS A	27139.285	-5.786	-7.945	1.00	0.00	C
	ATOM	334	CE	LYS A	27139.368	-7.071	-7.135	1.00	0.00	C
	ATOM	335	NZ	LYS A	27138.350	-7.109	-6.048	1.00	0.00	N
	ATOM	336	H	LYS A	27143.160	-3.766	-6.378	1.00	0.00	H
25	ATOM	337	HA	LYS A	27142.245	-6.501	-6.796	1.00	0.00	H
	ATOM	338	1HB	LYS A	27142.021	-3.983	-8.443	1.00	0.00	H
	ATOM	339	2HB	LYS A	27141.499	-5.556	-9.034	1.00	0.00	H
	ATOM	340	1HG	LYS A	27140.429	-4.864	-6.403	1.00	0.00	H
	ATOM	341	2HG	LYS A	27139.933	-3.771	-7.698	1.00	0.00	H



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	ATOM	342	1HD	LYS A	27138.293	-5.372	-7.841	1.00	0.00	H
	ATOM	343	2HD	LYS A	27139.475	-6.014	-8.984	1.00	0.00	H
	ATOM	344	1HE	LYS A	27139.208	-7.909	-7.795	1.00	0.00	H
	ATOM	345	2HE	LYS A	27140.353	-7.141	-6.697	1.00	0.00	H
5	ATOM	346	1HZ	LYS A	27137.554	-6.482	-6.282	1.00	0.00	H
	ATOM	347	2HZ	LYS A	27138.772	-6.795	-5.152	1.00	0.00	H
	ATOM	348	3HZ	LYS A	27137.992	-8.078	-5.928	1.00	0.00	H
	ATOM	349	N	GLU A	28144.644	-7.034	-7.575	1.00	0.00	N
	ATOM	350	CA	GLU A	28145.812	-7.553	-8.278	1.00	0.00	C
10	ATOM	351	C	GLU A	28145.714	-9.064	-8.456	1.00	0.00	C
	ATOM	352	O	GLU A	28144.671	-9.664	-8.195	1.00	0.00	O
	ATOM	353	CB	GLU A	28147.091	-7.198	-7.514	1.00	0.00	C
	ATOM	354	CG	GLU A	28148.178	-6.601	-8.394	1.00	0.00	C
	ATOM	355	CD	GLU A	28149.554	-7.148	-8.072	1.00	0.00	C
15	ATOM	356	OE1	GLU A	28150.418	-7.154	-8.976	1.00	0.00	O
	ATOM	357	OE2	GLU A	28149.770	-7.572	-6.918	1.00	0.00	O
	ATOM	358	H	GLU A	28144.417	-7.397	-6.694	1.00	0.00	H
	ATOM	359	HA	GLU A	28145.846	-7.088	-9.252	1.00	0.00	H
	ATOM	360	1HB	GLU A	28146.849	-6.482	-6.743	1.00	0.00	H
20	ATOM	361	2HB	GLU A	28147.483	-8.092	-7.052	1.00	0.00	H
	ATOM	362	1HG	GLU A	28147.952	-6.824	-9.426	1.00	0.00	H
	ATOM	363	2HG	GLU A	28148.190	-5.530	-8.252	1.00	0.00	H
	ATOM	364	N	ASN A	29146.807	-9.675	-8.902	1.00	0.00	N
	ATOM	365	CA	ASN A	29146.843	-11.117	-9.113	1.00	0.00	C
25	ATOM	366	C	ASN A	29146.916	-11.858	-7.781	1.00	0.00	C
	ATOM	367	O	ASN A	29146.049	-12.673	-7.467	1.00	0.00	O
	ATOM	368	CB	ASN A	29148.038	-11.495	-9.992	1.00	0.00	C
	ATOM	369	CG	ASN A	29147.648	-11.689	-11.445	1.00	0.00	C
	ATOM	370	OD1	ASN A	29147.487	-12.817	-11.911	1.00	0.00	O

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	ATOM	371	ND2	ASN	A	29147.495	-10.586	-12.168	1.00	0.00	N
	ATOM	372	H	ASN	A	29147.608	-9.143	-9.092	1.00	0.00	H
	ATOM	373	HA	ASN	A	29145.932	-11.400	-9.619	1.00	0.00	H
	ATOM	374	1HB	ASN	A	29148.778	-10.711	-9.939	1.00	0.00	H
5	ATOM	375	2HB	ASN	A	29148.468	-12.416	-9.627	1.00	0.00	H
	ATOM	376	1HD2	ASN	A	29147.640	-9.721	-11.730	1.00	0.00	H
	ATOM	377	2HD2	ASN	A	29147.244	-10.682	-13.110	1.00	0.00	H
	ATOM	378	N	PRO	A	30147.958	-11.585	-6.976	1.00	0.00	N
	ATOM	379	CA	PRO	A	30148.142	-12.228	-5.674	1.00	0.00	C
10	ATOM	380	C	PRO	A	30147.254	-11.613	-4.593	1.00	0.00	C
	ATOM	381	O	PRO	A	30147.455	-10.466	-4.194	1.00	0.00	O
	ATOM	382	CB	PRO	A	30149.614	-11.962	-5.367	1.00	0.00	C
	ATOM	383	CG	PRO	A	30149.906	-10.665	-6.040	1.00	0.00	C
	ATOM	384	CD	PRO	A	30149.040	-10.624	-7.274	1.00	0.00	C
15	ATOM	385	HA	PRO	A	30147.968	-13.291	-5.727	1.00	0.00	H
	ATOM	386	1HB	PRO	A	30149.757	-11.895	-4.298	1.00	0.00	H
	ATOM	387	2HB	PRO	A	30150.220	-12.760	-5.769	1.00	0.00	H
	ATOM	388	1HG	PRO	A	30149.657	-9.846	-5.381	1.00	0.00	H
	ATOM	389	2HG	PRO	A	30150.949	-10.622	-6.315	1.00	0.00	H
20	ATOM	390	1HD	PRO	A	30148.643	-9.631	-7.420	1.00	0.00	H
	ATOM	391	2HD	PRO	A	30149.604	-10.936	-8.140	1.00	0.00	H
	ATOM	392	N	PRO	A	31146.253	-12.366	-4.102	1.00	0.00	N
	ATOM	393	CA	PRO	A	31145.337	-11.880	-3.063	1.00	0.00	C
	ATOM	394	C	PRO	A	31146.064	-11.536	-1.768	1.00	0.00	C
25	ATOM	395	O	PRO	A	31146.500	-12.422	-1.034	1.00	0.00	O
	ATOM	396	CB	PRO	A	31144.378	-13.056	-2.838	1.00	0.00	C
	ATOM	397	CG	PRO	A	31144.514	-13.909	-4.053	1.00	0.00	C
	ATOM	398	CD	PRO	A	31145.932	-13.743	-4.514	1.00	0.00	C
	ATOM	399	HA	PRO	A	31144.781	-11.018	-3.401	1.00	0.00	H

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	ATOM	400	1HB	PRO	A	31144.666	-13.593	-1.946	1.00	0.00	H
	ATOM	401	2HB	PRO	A	31143.369	-12.685	-2.730	1.00	0.00	H
	ATOM	402	1HG	PRO	A	31144.319	-14.940	-3.802	1.00	0.00	H
	ATOM	403	2HG	PRO	A	31143.829	-13.571	-4.817	1.00	0.00	H
5	ATOM	404	1HD	PRO	A	31146.576	-14.455	-4.020	1.00	0.00	H
	ATOM	405	2HD	PRO	A	31145.997	-13.849	-5.586	1.00	0.00	H
	ATOM	406	N	PHE	A	32146.191	-10.242	-1.492	1.00	0.00	N
	ATOM	407	CA	PHE	A	32146.864	-9.781	-0.283	1.00	0.00	C
	ATOM	408	C	PHE	A	32146.068	-8.670	0.395	1.00	0.00	C
10	ATOM	409	O	PHE	A	32145.464	-7.831	-0.273	1.00	0.00	O
	ATOM	410	CB	PHE	A	32148.273	-9.285	-0.615	1.00	0.00	C
	ATOM	411	CG	PHE	A	32148.295	-8.133	-1.580	1.00	0.00	C
	ATOM	412	CD1	PHE	A	32147.870	-6.875	-1.187	1.00	0.00	C
	ATOM	413	CD2	PHE	A	32148.741	-8.311	-2.879	1.00	0.00	C
15	ATOM	414	CE1	PHE	A	32147.889	-5.815	-2.073	1.00	0.00	C
	ATOM	415	CE2	PHE	A	32148.763	-7.254	-3.769	1.00	0.00	C
	ATOM	416	CZ	PHE	A	32148.337	-6.004	-3.366	1.00	0.00	C
	ATOM	417	H	PHE	A	32145.822	-9.581	-2.115	1.00	0.00	H
	ATOM	418	HA	PHE	A	32146.938	-10.618	0.394	1.00	0.00	H
20	ATOM	419	1HB	PHE	A	32148.757	-8.964	0.295	1.00	0.00	H
	ATOM	420	2HB	PHE	A	32148.839	-10.095	-1.050	1.00	0.00	H
	ATOM	421	HD1	PHE	A	32147.520	-6.724	-0.176	1.00	0.00	H
	ATOM	422	HD2	PHE	A	32149.076	-9.288	-3.196	1.00	0.00	H
	ATOM	423	HE1	PHE	A	32147.554	-4.838	-1.755	1.00	0.00	H
25	ATOM	424	HE2	PHE	A	32149.113	-7.405	-4.780	1.00	0.00	H
	ATOM	425	HZ	PHE	A	32148.352	-5.177	-4.059	1.00	0.00	H
	ATOM	426	N	TYR	A	33146.071	-8.673	1.724	1.00	0.00	N
	ATOM	427	CA	TYR	A	33145.349	-7.666	2.492	1.00	0.00	C
	ATOM	428	C	TYR	A	33146.315	-6.689	3.153	1.00	0.00	C

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	ATOM	429	O	TYR	A	33147.406	-7.072	3.575	1.00	0.00	O
	ATOM	430	CB	TYR	A	33144.475	-8.335	3.555	1.00	0.00	C
	ATOM	431	CG	TYR	A	33143.212	-8.953	2.999	1.00	0.00	C
	ATOM	432	CD1	TYR	A	33142.857	-10.258	3.318	1.00	0.00	C
5	ATOM	433	CD2	TYR	A	33142.375	-8.232	2.157	1.00	0.00	C
	ATOM	434	CE1	TYR	A	33141.704	-10.828	2.811	1.00	0.00	C
	ATOM	435	CE2	TYR	A	33141.220	-8.794	1.647	1.00	0.00	C
	ATOM	436	CZ	TYR	A	33140.888	-10.091	1.977	1.00	0.00	C
	ATOM	437	OH	TYR	A	33139.740	-10.655	1.473	1.00	0.00	O
10	ATOM	438	H	TYR	A	33146.571	-9.369	2.199	1.00	0.00	H
	ATOM	439	HA	TYR	A	33144.715	-7.121	1.809	1.00	0.00	H
	ATOM	440	1HB	TYR	A	33145.042	-9.116	4.037	1.00	0.00	H
	ATOM	441	2HB	TYR	A	33144.188	-7.598	4.290	1.00	0.00	H
	ATOM	442	HD1	TYR	A	33143.497	-10.832	3.971	1.00	0.00	H
15	ATOM	443	HD2	TYR	A	33142.637	-7.216	1.900	1.00	0.00	H
	ATOM	444	HE1	TYR	A	33141.445	-11.844	3.070	1.00	0.00	H
	ATOM	445	HE2	TYR	A	33140.581	-8.217	0.994	1.00	0.00	H
	ATOM	446	HH	TYR	A	33139.799	-10.701	0.515	1.00	0.00	H
	ATOM	447	N	GLY	A	34145.909	-5.427	3.237	1.00	0.00	N
20	ATOM	448	CA	GLY	A	34146.751	-4.416	3.848	1.00	0.00	C
	ATOM	449	C	GLY	A	34145.959	-3.219	4.337	1.00	0.00	C
	ATOM	450	O	GLY	A	34144.841	-2.978	3.884	1.00	0.00	O
	ATOM	451	H	GLY	A	34145.029	-5.181	2.883	1.00	0.00	H
	ATOM	452	1HA	GLY	A	34147.273	-4.856	4.684	1.00	0.00	H
25	ATOM	453	2HA	GLY	A	34147.476	-4.081	3.121	1.00	0.00	H
	ATOM	454	N	VAL	A	35146.541	-2.468	5.266	1.00	0.00	N
	ATOM	455	CA	VAL	A	35145.884	-1.291	5.818	1.00	0.00	C
	ATOM	456	C	VAL	A	35146.524	-0.008	5.294	1.00	0.00	C
	ATOM	457	O	VAL	A	35147.743	0.072	5.144	1.00	0.00	O

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	ATOM	458	CB	VAL A	35145.936	-1.289	7.360	1.00	0.00	C
	ATOM	459	CG1	VAL A	35147.377	-1.253	7.849	1.00	0.00	C
	ATOM	460	CG2	VAL A	35145.140	-0.120	7.925	1.00	0.00	C
	ATOM	461	H	VAL A	35147.434	-2.712	5.588	1.00	0.00	H
5	ATOM	462	HA	VAL A	35144.848	-1.314	5.514	1.00	0.00	H
	ATOM	463	HB	VAL A	35145.486	-2.206	7.713	1.00	0.00	H
	ATOM	464	1HG1	VAL A	35147.393	-1.031	8.905	1.00	0.00	H
	ATOM	465	2HG1	VAL A	35147.920	-0.489	7.312	1.00	0.00	H
	ATOM	466	3HG1	VAL A	35147.841	-2.213	7.675	1.00	0.00	H
10	ATOM	467	1HG2	VAL A	35144.771	0.491	7.115	1.00	0.00	H
	ATOM	468	2HG2	VAL A	35145.777	0.476	8.563	1.00	0.00	H
	ATOM	469	3HG2	VAL A	35144.307	-0.497	8.500	1.00	0.00	H
	ATOM	470	N	ILE A	36145.694	0.991	5.016	1.00	0.00	N
	ATOM	471	CA	ILE A	36146.181	2.269	4.508	1.00	0.00	C
15	ATOM	472	C	ILE A	36147.115	2.937	5.513	1.00	0.00	C
	ATOM	473	O	ILE A	36146.824	2.986	6.708	1.00	0.00	O
	ATOM	474	CB	ILE A	36145.017	3.229	4.186	1.00	0.00	C
	ATOM	475	CG1	ILE A	36143.994	2.541	3.278	1.00	0.00	C
	ATOM	476	CG2	ILE A	36145.541	4.501	3.533	1.00	0.00	C
20	ATOM	477	CD1	ILE A	36142.827	3.428	2.903	1.00	0.00	C
	ATOM	478	H	ILE A	36144.733	0.868	5.157	1.00	0.00	H
	ATOM	479	HA	ILE A	36146.727	2.079	3.596	1.00	0.00	H
	ATOM	480	HB	ILE A	36144.538	3.502	5.114	1.00	0.00	H
	ATOM	481	1HG1	ILE A	36144.482	2.233	2.367	1.00	0.00	H
25	ATOM	482	2HG1	ILE A	36143.601	1.671	3.784	1.00	0.00	H
	ATOM	483	1HG2	ILE A	36145.386	4.447	2.465	1.00	0.00	H
	ATOM	484	2HG2	ILE A	36146.597	4.602	3.738	1.00	0.00	H
	ATOM	485	3HG2	ILE A	36145.013	5.354	3.931	1.00	0.00	H
	ATOM	486	1HD1	ILE A	36142.347	3.036	2.018	1.00	0.00	H

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	ATOM	487	2HD1	ILE A	36143.183	4.428	2.706	1.00	0.00	H
	ATOM	488	3HD1	ILE A	36142.116	3.452	3.716	1.00	0.00	H
	ATOM	489	N	ARG A	37148.237	3.449	5.019	1.00	0.00	N
	ATOM	490	CA	ARG A	37149.215	4.113	5.872	1.00	0.00	C
5	ATOM	491	C	ARG A	37149.395	5.571	5.462	1.00	0.00	C
	ATOM	492	O	ARG A	37149.097	6.483	6.232	1.00	0.00	O
	ATOM	493	CB	ARG A	37150.558	3.383	5.807	1.00	0.00	C
	ATOM	494	CG	ARG A	37150.462	1.902	6.127	1.00	0.00	C
	ATOM	495	CD	ARG A	37149.957	1.669	7.543	1.00	0.00	C
10	ATOM	496	NE	ARG A	37150.921	2.111	8.547	1.00	0.00	N
	ATOM	497	CZ	ARG A	37150.615	2.326	9.825	1.00	0.00	C
	ATOM	498	NH1	ARG A	37149.373	2.142	10.257	1.00	0.00	N
	ATOM	499	NH2	ARG A	37151.552	2.726	10.673	1.00	0.00	N
	ATOM	500	H	ARG A	37148.412	3.377	4.057	1.00	0.00	H
15	ATOM	501	HA	ARG A	37148.847	4.080	6.887	1.00	0.00	H
	ATOM	502	1HB	ARG A	37150.964	3.489	4.811	1.00	0.00	H
	ATOM	503	2HB	ARG A	37151.237	3.839	6.513	1.00	0.00	H
	ATOM	504	1HG	ARG A	37149.779	1.436	5.432	1.00	0.00	H
	ATOM	505	2HG	ARG A	37151.441	1.457	6.027	1.00	0.00	H
20	ATOM	506	1HD	ARG A	37149.036	2.217	7.676	1.00	0.00	H
	ATOM	507	2HD	ARG A	37149.770	0.614	7.675	1.00	0.00	H
	ATOM	508	HE	ARG A	37151.845	2.255	8.255	1.00	0.00	H
	ATOM	509	1HH1	ARG A	37148.661	1.839	9.623	1.00	0.00	H
	ATOM	510	2HH1	ARG A	37149.150	2.304	11.218	1.00	0.00	H
25	ATOM	511	1HH2	ARG A	37152.488	2.866	10.352	1.00	0.00	H
	ATOM	512	2HH2	ARG A	37151.322	2.887	11.632	1.00	0.00	H
	ATOM	513	N	TRP A	38149.882	5.784	4.244	1.00	0.00	N
	ATOM	514	CA	TRP A	38150.100	7.132	3.733	1.00	0.00	C
	ATOM	515	C	TRP A	38149.375	7.336	2.406	1.00	0.00	C

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	ATOM	516	O	TRP A	38149.482	6.516	1.495	1.00	0.00	O
	ATOM	517	CB	TRP A	38151.599	7.402	3.559	1.00	0.00	C
	ATOM	518	CG	TRP A	38151.898	8.654	2.788	1.00	0.00	C
	ATOM	519	CD1	TRP A	38152.099	9.904	3.297	1.00	0.00	C
5	ATOM	520	CD2	TRP A	38152.022	8.774	1.366	1.00	0.00	C
	ATOM	521	NE1	TRP A	38152.341	10.795	2.279	1.00	0.00	N
	ATOM	522	CE2	TRP A	38152.299	10.126	1.084	1.00	0.00	C
	ATOM	523	CE3	TRP A	38151.926	7.871	0.304	1.00	0.00	C
	ATOM	524	CZ2	TRP A	38152.481	10.593	-0.216	1.00	0.00	C
10	ATOM	525	CZ3	TRP A	38152.107	8.335	-0.985	1.00	0.00	C
	ATOM	526	CH2	TRP A	38152.381	9.685	-1.236	1.00	0.00	C
	ATOM	527	H	TRP A	38150.101	5.016	3.675	1.00	0.00	H
	ATOM	528	HA	TRP A	38149.700	7.828	4.456	1.00	0.00	H
	ATOM	529	1HB	TRP A	38152.056	7.494	4.533	1.00	0.00	H
15	ATOM	530	2HB	TRP A	38152.049	6.571	3.035	1.00	0.00	H
	ATOM	531	HD1	TRP A	38152.068	10.144	4.350	1.00	0.00	H
	ATOM	532	HE1	TRP A	38152.516	11.753	2.391	1.00	0.00	H
	ATOM	533	HE3	TRP A	38151.715	6.827	0.477	1.00	0.00	H
	ATOM	534	HZ2	TRP A	38152.690	11.631	-0.427	1.00	0.00	H
20	ATOM	535	HZ3	TRP A	38152.037	7.652	-1.818	1.00	0.00	H
	ATOM	536	HH2	TRP A	38152.516	10.004	-2.259	1.00	0.00	H
	ATOM	537	N	ILE A	39148.646	8.442	2.303	1.00	0.00	N
	ATOM	538	CA	ILE A	39147.911	8.766	1.088	1.00	0.00	C
	ATOM	539	C	ILE A	39148.340	10.125	0.546	1.00	0.00	C
25	ATOM	540	O	ILE A	39147.988	11.165	1.104	1.00	0.00	O
	ATOM	541	CB	ILE A	39146.391	8.780	1.335	1.00	0.00	C
	ATOM	542	CG1	ILE A	39145.961	7.521	2.089	1.00	0.00	C
	ATOM	543	CG2	ILE A	39145.640	8.896	0.016	1.00	0.00	C
	ATOM	544	CD1	ILE A	39144.572	7.613	2.680	1.00	0.00	C

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	ATOM	545	H	ILE A	39148.608	9.060	3.063	1.00	0.00	H
	ATOM	546	HA	ILE A	39148.130	8.008	0.350	1.00	0.00	H
	ATOM	547	HB	ILE A	39146.153	9.647	1.932	1.00	0.00	H
	ATOM	548	1HG1	ILE A	39145.977	6.680	1.411	1.00	0.00	H
5	ATOM	549	2HG1	ILE A	39146.656	7.338	2.897	1.00	0.00	H
	ATOM	550	1HG2	ILE A	39144.577	8.847	0.202	1.00	0.00	H
	ATOM	551	2HG2	ILE A	39145.930	8.085	-0.636	1.00	0.00	H
	ATOM	552	3HG2	ILE A	39145.880	9.839	-0.453	1.00	0.00	H
	ATOM	553	1HD1	ILE A	39143.973	8.287	2.086	1.00	0.00	H
10	ATOM	554	2HD1	ILE A	39144.635	7.984	3.692	1.00	0.00	H
	ATOM	555	3HD1	ILE A	39144.116	6.634	2.682	1.00	0.00	H
	ATOM	556	N	GLY A	40149.108	10.112	-0.539	1.00	0.00	N
	ATOM	557	CA	GLY A	40149.576	11.353	-1.126	1.00	0.00	C
	ATOM	558	C	GLY A	40150.128	11.169	-2.526	1.00	0.00	C
15	ATOM	559	O	GLY A	40149.973	10.107	-3.129	1.00	0.00	O
	ATOM	560	H	GLY A	40149.362	9.254	-0.940	1.00	0.00	H
	ATOM	561	1HA	GLY A	40148.755	12.052	-1.165	1.00	0.00	H
	ATOM	562	2HA	GLY A	40150.351	11.763	-0.498	1.00	0.00	H
	ATOM	563	N	GLN A	41150.772	12.210	-3.042	1.00	0.00	N
20	ATOM	564	CA	GLN A	41151.352	12.170	-4.378	1.00	0.00	C
	ATOM	565	C	GLN A	41152.824	12.581	-4.341	1.00	0.00	C
	ATOM	566	O	GLN A	41153.146	13.724	-4.012	1.00	0.00	O
	ATOM	567	CB	GLN A	41150.574	13.098	-5.310	1.00	0.00	C
	ATOM	568	CG	GLN A	41149.068	12.908	-5.240	1.00	0.00	C
25	ATOM	569	CD	GLN A	41148.312	14.221	-5.293	1.00	0.00	C
	ATOM	570	OE1	GLN A	41148.274	14.968	-4.315	1.00	0.00	O
	ATOM	571	NE2	GLN A	41147.705	14.509	-6.437	1.00	0.00	N
	ATOM	572	H	GLN A	41150.861	13.027	-2.510	1.00	0.00	H
	ATOM	573	HA	GLN A	41151.277	11.159	-4.745	1.00	0.00	H



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	ATOM	574	1HB	GLN A	41150.798	14.121	-5.048	1.00	0.00	H
	ATOM	575	2HB	GLN A	41150.892	12.919	-6.325	1.00	0.00	H
	ATOM	576	1HG	GLN A	41148.754	12.298	-6.074	1.00	0.00	H
	ATOM	577	2HG	GLN A	41148.824	12.406	-4.316	1.00	0.00	H
5	ATOM	578	1HE2	GLN A	41147.778	13.866	-7.174	1.00	0.00	H
	ATOM	579	2HE2	GLN A	41147.211	15.351	-6.500	1.00	0.00	H
	ATOM	580	N	PRO A	42153.742	11.656	-4.675	1.00	0.00	N
	ATOM	581	CA	PRO A	42155.181	11.939	-4.673	1.00	0.00	C
	ATOM	582	C	PRO A	42155.542	13.108	-5.584	1.00	0.00	C
10	ATOM	583	O	PRO A	42154.782	13.461	-6.486	1.00	0.00	O
	ATOM	584	CB	PRO A	42155.808	10.641	-5.194	1.00	0.00	C
	ATOM	585	CG	PRO A	42154.786	9.590	-4.928	1.00	0.00	C
	ATOM	586	CD	PRO A	42153.455	10.268	-5.079	1.00	0.00	C
	ATOM	587	HA	PRO A	42155.542	12.139	-3.674	1.00	0.00	H
15	ATOM	588	1HB	PRO A	42156.012	10.737	-6.250	1.00	0.00	H
	ATOM	589	2HB	PRO A	42156.725	10.442	-4.661	1.00	0.00	H
	ATOM	590	1HG	PRO A	42154.883	8.791	-5.647	1.00	0.00	H
	ATOM	591	2HG	PRO A	42154.901	9.210	-3.923	1.00	0.00	H
	ATOM	592	1HD	PRO A	42153.124	10.226	-6.107	1.00	0.00	H
20	ATOM	593	2HD	PRO A	42152.724	9.819	-4.424	1.00	0.00	H
	ATOM	594	N	PRO A	43156.714	13.726	-5.360	1.00	0.00	N
	ATOM	595	CA	PRO A	43157.174	14.860	-6.166	1.00	0.00	C
	ATOM	596	C	PRO A	43157.596	14.441	-7.569	1.00	0.00	C
	ATOM	597	O	PRO A	43158.768	14.155	-7.816	1.00	0.00	O
25	ATOM	598	CB	PRO A	43158.377	15.386	-5.384	1.00	0.00	C
	ATOM	599	CG	PRO A	43158.887	14.204	-4.634	1.00	0.00	C
	ATOM	600	CD	PRO A	43157.681	13.366	-4.305	1.00	0.00	C
	ATOM	601	HA	PRO A	43156.419	15.630	-6.233	1.00	0.00	H
	ATOM	602	1HB	PRO A	43159.117	15.767	-6.073	1.00	0.00	H

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	ATOM	603	2HB	PRO	A	43158.061	16.171	-4.714	1.00	0.00	H
	ATOM	604	1HG	PRO	A	43159.573	13.646	-5.253	1.00	0.00	H
	ATOM	605	2HG	PRO	A	43159.376	14.528	-3.728	1.00	0.00	H
	ATOM	606	1HD	PRO	A	43157.928	12.316	-4.350	1.00	0.00	H
5	ATOM	607	2HD	PRO	A	43157.298	13.624	-3.329	1.00	0.00	H
	ATOM	608	N	GLY	A	44156.635	14.406	-8.486	1.00	0.00	N
	ATOM	609	CA	GLY	A	44156.931	14.021	-9.852	1.00	0.00	C
	ATOM	610	C	GLY	A	44155.710	13.511	-10.590	1.00	0.00	C
	ATOM	611	O	GLY	A	44155.412	13.962	-11.696	1.00	0.00	O
10	ATOM	612	H	GLY	A	44155.719	14.645	-8.232	1.00	0.00	H
	ATOM	613	1HA	GLY	A	44157.323	14.877	-10.378	1.00	0.00	H
	ATOM	614	2HA	GLY	A	44157.681	13.245	-9.840	1.00	0.00	H
	ATOM	615	N	LEU	A	45155.002	12.568	-9.979	1.00	0.00	N
	ATOM	616	CA	LEU	A	45153.807	11.996	-10.589	1.00	0.00	C
15	ATOM	617	C	LEU	A	45152.592	12.203	-9.694	1.00	0.00	C
	ATOM	618	O	LEU	A	45152.501	11.623	-8.612	1.00	0.00	O
	ATOM	619	CB	LEU	A	45154.011	10.504	-10.858	1.00	0.00	C
	ATOM	620	CG	LEU	A	45154.560	9.704	-9.674	1.00	0.00	C
	ATOM	621	CD1	LEU	A	45154.219	8.227	-9.821	1.00	0.00	C
20	ATOM	622	CD2	LEU	A	45156.066	9.899	-9.551	1.00	0.00	C
	ATOM	623	H	LEU	A	45155.289	12.247	-9.096	1.00	0.00	H
	ATOM	624	HA	LEU	A	45153.640	12.503	-11.528	1.00	0.00	H
	ATOM	625	1HB	LEU	A	45153.060	10.079	-11.144	1.00	0.00	H
	ATOM	626	2HB	LEU	A	45154.698	10.399	-11.684	1.00	0.00	H
25	ATOM	627	HG	LEU	A	45154.101	10.062	-8.764	1.00	0.00	H
	ATOM	628	1HD1	LEU	A	45153.622	8.081	-10.710	1.00	0.00	H
	ATOM	629	2HD1	LEU	A	45153.661	7.900	-8.956	1.00	0.00	H
	ATOM	630	3HD1	LEU	A	45155.130	7.652	-9.900	1.00	0.00	H
	ATOM	631	1HD2	LEU	A	45156.572	8.983	-9.824	1.00	0.00	H

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	ATOM	632	2HD2	LEU	A	45156.312	10.155	-8.530	1.00	0.00	H
	ATOM	633	3HD2	LEU	A	45156.383	10.694	-10.208	1.00	0.00	H
	ATOM	634	N	ASN	A	46151.656	13.030	-10.149	1.00	0.00	N
	ATOM	635	CA	ASN	A	46150.449	13.299	-9.377	1.00	0.00	C
5	ATOM	636	C	ASN	A	46149.512	12.098	-9.414	1.00	0.00	C
	ATOM	637	O	ASN	A	46148.893	11.810	-10.438	1.00	0.00	O
	ATOM	638	CB	ASN	A	46149.736	14.537	-9.925	1.00	0.00	C
	ATOM	639	CG	ASN	A	46148.974	15.289	-8.852	1.00	0.00	C
	ATOM	640	OD1	ASN	A	46147.746	15.375	-8.891	1.00	0.00	O
10	ATOM	641	ND2	ASN	A	46149.700	15.838	-7.884	1.00	0.00	N
	ATOM	642	H	ASN	A	46151.778	13.465	-11.018	1.00	0.00	H
	ATOM	643	HA	ASN	A	46150.742	13.484	-8.355	1.00	0.00	H
	ATOM	644	1HB	ASN	A	46150.466	15.205	-10.356	1.00	0.00	H
	ATOM	645	2HB	ASN	A	46149.038	14.232	-10.691	1.00	0.00	H
15	ATOM	646	1HD2	ASN	A	46150.673	15.727	-7.917	1.00	0.00	H
	ATOM	647	2HD2	ASN	A	46149.233	16.329	-7.178	1.00	0.00	H
	ATOM	648	N	GLU	A	47149.415	11.401	-8.288	1.00	0.00	N
	ATOM	649	CA	GLU	A	47148.555	10.230	-8.183	1.00	0.00	C
	ATOM	650	C	GLU	A	47148.375	9.820	-6.726	1.00	0.00	C
20	ATOM	651	O	GLU	A	47149.348	9.519	-6.034	1.00	0.00	O
	ATOM	652	CB	GLU	A	47149.138	9.063	-8.985	1.00	0.00	C
	ATOM	653	CG	GLU	A	47150.653	8.959	-8.902	1.00	0.00	C
	ATOM	654	CD	GLU	A	47151.235	8.068	-9.981	1.00	0.00	C
	ATOM	655	OE1	GLU	A	47151.350	8.531	-11.134	1.00	0.00	O
25	ATOM	656	OE2	GLU	A	47151.575	6.905	-9.672	1.00	0.00	O
	ATOM	657	H	GLU	A	47149.935	11.682	-7.507	1.00	0.00	H
	ATOM	658	HA	GLU	A	47147.590	10.490	-8.592	1.00	0.00	H
	ATOM	659	1HB	GLU	A	47148.715	8.141	-8.616	1.00	0.00	H
	ATOM	660	2HB	GLU	A	47148.864	9.183	-10.022	1.00	0.00	H

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	ATOM	661	1HG	GLU A	47151.075	9.946	-9.006	1.00	0.00	H
	ATOM	662	2HG	GLU A	47150.922	8.554	-7.937	1.00	0.00	H
	ATOM	663	N	VAL A	48147.130	9.802	-6.264	1.00	0.00	N
	ATOM	664	CA	VAL A	48146.839	9.420	-4.889	1.00	0.00	C
5	ATOM	665	C	VAL A	48147.232	7.969	-4.639	1.00	0.00	C
	ATOM	666	O	VAL A	48146.502	7.047	-5.001	1.00	0.00	O
	ATOM	667	CB	VAL A	48145.346	9.605	-4.557	1.00	0.00	C
	ATOM	668	CG1	VAL A	48145.100	9.395	-3.071	1.00	0.00	C
	ATOM	669	CG2	VAL A	48144.867	10.980	-4.996	1.00	0.00	C
10	ATOM	670	H	VAL A	48146.393	10.047	-6.862	1.00	0.00	H
	ATOM	671	HA	VAL A	48147.417	10.058	-4.236	1.00	0.00	H
	ATOM	672	HB	VAL A	48144.783	8.860	-5.100	1.00	0.00	H
	ATOM	673	1HG1	VAL A	48144.082	9.666	-2.834	1.00	0.00	H
	ATOM	674	2HG1	VAL A	48145.780	10.014	-2.503	1.00	0.00	H
15	ATOM	675	3HG1	VAL A	48145.265	8.358	-2.821	1.00	0.00	H
	ATOM	676	1HG2	VAL A	48145.704	11.662	-5.017	1.00	0.00	H
	ATOM	677	2HG2	VAL A	48144.125	11.342	-4.301	1.00	0.00	H
	ATOM	678	3HG2	VAL A	48144.433	10.912	-5.983	1.00	0.00	H
	ATOM	679	N	LEU A	49148.392	7.774	-4.021	1.00	0.00	N
20	ATOM	680	CA	LEU A	49148.884	6.434	-3.727	1.00	0.00	C
	ATOM	681	C	LEU A	49148.782	6.135	-2.237	1.00	0.00	C
	ATOM	682	O	LEU A	49149.437	6.780	-1.418	1.00	0.00	O
	ATOM	683	CB	LEU A	49150.333	6.286	-4.190	1.00	0.00	C
	ATOM	684	CG	LEU A	49150.544	6.396	-5.702	1.00	0.00	C
25	ATOM	685	CD1	LEU A	49151.921	6.965	-6.009	1.00	0.00	C
	ATOM	686	CD2	LEU A	49150.367	5.038	-6.363	1.00	0.00	C
	ATOM	687	H	LEU A	49148.932	8.549	-3.758	1.00	0.00	H
	ATOM	688	HA	LEU A	49148.269	5.729	-4.266	1.00	0.00	H
	ATOM	689	1HB	LEU A	49150.924	7.053	-3.709	1.00	0.00	H

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	ATOM	690	2HB	LEU A	49150.696	5.322	-3.869	1.00	0.00	H
	ATOM	691	HG	LEU A	49149.806	7.068	-6.114	1.00	0.00	H
	ATOM	692	1HD1	LEU A	49151.845	8.033	-6.150	1.00	0.00	H
	ATOM	693	2HD1	LEU A	49152.306	6.509	-6.908	1.00	0.00	H
5	ATOM	694	3HD1	LEU A	49152.588	6.757	-5.186	1.00	0.00	H
	ATOM	695	1HD2	LEU A	49151.056	4.331	-5.924	1.00	0.00	H
	ATOM	696	2HD2	LEU A	49150.566	5.123	-7.421	1.00	0.00	H
	ATOM	697	3HD2	LEU A	49149.354	4.694	-6.214	1.00	0.00	H
	ATOM	698	N	ALA A	50147.954	5.157	-1.890	1.00	0.00	N
10	ATOM	699	CA	ALA A	50147.767	4.778	-0.498	1.00	0.00	C
	ATOM	700	C	ALA A	50148.728	3.663	-0.099	1.00	0.00	C
	ATOM	701	O	ALA A	50148.645	2.546	-0.611	1.00	0.00	O
	ATOM	702	CB	ALA A	50146.329	4.352	-0.254	1.00	0.00	C
	ATOM	703	H	ALA A	50147.457	4.680	-2.588	1.00	0.00	H
15	ATOM	704	HA	ALA A	50147.968	5.649	0.110	1.00	0.00	H
	ATOM	705	1HB	ALA A	50146.304	3.578	0.500	1.00	0.00	H
	ATOM	706	2HB	ALA A	50145.905	3.973	-1.172	1.00	0.00	H
	ATOM	707	3HB	ALA A	50145.753	5.201	0.084	1.00	0.00	H
	ATOM	708	N	GLY A	51149.639	3.971	0.818	1.00	0.00	N
20	ATOM	709	CA	GLY A	51150.601	2.984	1.269	1.00	0.00	C
	ATOM	710	C	GLY A	51149.968	1.910	2.133	1.00	0.00	C
	ATOM	711	O	GLY A	51149.673	2.142	3.305	1.00	0.00	O
	ATOM	712	H	GLY A	51149.657	4.877	1.191	1.00	0.00	H
	ATOM	713	1HA	GLY A	51151.053	2.516	0.406	1.00	0.00	H
25	ATOM	714	2HA	GLY A	51151.371	3.482	1.839	1.00	0.00	H
	ATOM	715	N	LEU A	52149.760	0.733	1.554	1.00	0.00	N
	ATOM	716	CA	LEU A	52149.158	-0.379	2.279	1.00	0.00	C
	ATOM	717	C	LEU A	52150.226	-1.227	2.962	1.00	0.00	C
	ATOM	718	O	LEU A	52151.311	-1.435	2.418	1.00	0.00	O

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	ATOM	719	CB	LEU A	52148.331	-1.247	1.329	1.00	0.00	C
	ATOM	720	CG	LEU A	52147.092	-0.567	0.742	1.00	0.00	C
	ATOM	721	CD1	LEU A	52146.492	-1.417	-0.367	1.00	0.00	C
	ATOM	722	CD2	LEU A	52146.064	-0.305	1.832	1.00	0.00	C
5	ATOM	723	H	LEU A	52150.018	0.609	0.617	1.00	0.00	H
	ATOM	724	HA	LEU A	52148.505	0.033	3.035	1.00	0.00	H
	ATOM	725	1HB	LEU A	52148.968	-1.558	0.513	1.00	0.00	H
	ATOM	726	2HB	LEU A	52148.010	-2.127	1.866	1.00	0.00	H
	ATOM	727	HG	LEU A	52147.380	0.383	0.317	1.00	0.00	H
10	ATOM	728	1HD1	LEU A	52146.896	-1.104	-1.319	1.00	0.00	H
	ATOM	729	2HD1	LEU A	52145.420	-1.294	-0.374	1.00	0.00	H
	ATOM	730	3HD1	LEU A	52146.736	-2.456	-0.197	1.00	0.00	H
	ATOM	731	1HD2	LEU A	52146.171	-1.044	2.613	1.00	0.00	H
	ATOM	732	2HD2	LEU A	52145.071	-0.367	1.412	1.00	0.00	H
15	ATOM	733	3HD2	LEU A	52146.220	0.680	2.245	1.00	0.00	H
	ATOM	734	N	GLU A	53149.911	-1.716	4.157	1.00	0.00	N
	ATOM	735	CA	GLU A	53150.842	-2.542	4.916	1.00	0.00	C
	ATOM	736	C	GLU A	53150.337	-3.977	5.018	1.00	0.00	C
	ATOM	737	O	GLU A	53149.366	-4.256	5.720	1.00	0.00	O
20	ATOM	738	CB	GLU A	53151.049	-1.961	6.316	1.00	0.00	C
	ATOM	739	CG	GLU A	53152.034	-2.750	7.163	1.00	0.00	C
	ATOM	740	CD	GLU A	53151.587	-2.881	8.606	1.00	0.00	C
	ATOM	741	OE1	GLU A	53152.298	-2.368	9.497	1.00	0.00	O
	ATOM	742	OE2	GLU A	53150.528	-3.497	8.845	1.00	0.00	O
25	ATOM	743	H	GLU A	53149.031	-1.515	4.539	1.00	0.00	H
	ATOM	744	HA	GLU A	53151.787	-2.541	4.393	1.00	0.00	H
	ATOM	745	1HB	GLU A	53151.416	-0.950	6.224	1.00	0.00	H
	ATOM	746	2HB	GLU A	53150.099	-1.944	6.830	1.00	0.00	H
	ATOM	747	1HG	GLU A	53152.138	-3.739	6.743	1.00	0.00	H

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	ATOM	748	2HG	GLU A	53152.990	-2.248	7.141	1.00	0.00	H
	ATOM	749	N	LEU A	54151.003	-4.885	4.310	1.00	0.00	N
	ATOM	750	CA	LEU A	54150.620	-6.292	4.319	1.00	0.00	C
	ATOM	751	C	LEU A	54150.836	-6.904	5.700	1.00	0.00	C
5	ATOM	752	O	LEU A	54151.871	-6.692	6.329	1.00	0.00	O
	ATOM	753	CB	LEU A	54151.423	-7.067	3.273	1.00	0.00	C
	ATOM	754	CG	LEU A	54151.413	-6.460	1.869	1.00	0.00	C
	ATOM	755	CD1	LEU A	54152.554	-7.023	1.036	1.00	0.00	C
	ATOM	756	CD2	LEU A	54150.076	-6.717	1.189	1.00	0.00	C
10	ATOM	757	H	LEU A	54151.769	-4.601	3.768	1.00	0.00	H
	ATOM	758	HA	LEU A	54149.571	-6.352	4.072	1.00	0.00	H
	ATOM	759	1HB	LEU A	54152.448	-7.128	3.610	1.00	0.00	H
	ATOM	760	2HB	LEU A	54151.022	-8.068	3.211	1.00	0.00	H
	ATOM	761	HG	LEU A	54151.551	-5.392	1.944	1.00	0.00	H
15	ATOM	762	1HD1	LEU A	54152.684	-8.071	1.266	1.00	0.00	H
	ATOM	763	2HD1	LEU A	54153.463	-6.489	1.263	1.00	0.00	H
	ATOM	764	3HD1	LEU A	54152.323	-6.911	-0.013	1.00	0.00	H
	ATOM	765	1HD2	LEU A	54149.629	-7.612	1.599	1.00	0.00	H
	ATOM	766	2HD2	LEU A	54150.230	-6.846	0.128	1.00	0.00	H
20	ATOM	767	3HD2	LEU A	54149.419	-5.877	1.357	1.00	0.00	H
	ATOM	768	N	GLU A	55149.850	-7.665	6.164	1.00	0.00	N
	ATOM	769	CA	GLU A	55149.930	-8.310	7.469	1.00	0.00	C
	ATOM	770	C	GLU A	55151.044	-9.351	7.494	1.00	0.00	C
	ATOM	771	O	GLU A	55151.685	-9.565	8.524	1.00	0.00	O
25	ATOM	772	CB	GLU A	55148.594	-8.967	7.822	1.00	0.00	C
	ATOM	773	CG	GLU A	55147.552	-7.987	8.337	1.00	0.00	C
	ATOM	774	CD	GLU A	55146.137	-8.398	7.975	1.00	0.00	C
	ATOM	775	OE1	GLU A	55145.968	-9.127	6.975	1.00	0.00	O
	ATOM	776	OE2	GLU A	55145.200	-7.990	8.692	1.00	0.00	O

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	ATOM	777	H	GLU A	55149.048	-7.797	5.615	1.00	0.00	H
	ATOM	778	HA	GLU A	55150.150	-7.547	8.202	1.00	0.00	H
	ATOM	779	1HB	GLU A	55148.199	-9.448	6.939	1.00	0.00	H
	ATOM	780	2HB	GLU A	55148.763	-9.712	8.584	1.00	0.00	H
5	ATOM	781	1HG	GLU A	55147.630	-7.930	9.412	1.00	0.00	H
	ATOM	782	2HG	GLU A	55147.749	-7.015	7.910	1.00	0.00	H
	ATOM	783	N	ASP A	56151.269	-9.997	6.356	1.00	0.00	N
	ATOM	784	CA	ASP A	56152.306	-11.017	6.248	1.00	0.00	C
	ATOM	785	C	ASP A	56153.580	-10.435	5.642	1.00	0.00	C
10	ATOM	786	O	ASP A	56153.529	-9.483	4.864	1.00	0.00	O
	ATOM	787	CB	ASP A	56151.812	-12.189	5.397	1.00	0.00	C
	ATOM	788	CG	ASP A	56150.930	-13.140	6.180	1.00	0.00	C
	ATOM	789	OD1	ASP A	56149.691	-13.034	6.064	1.00	0.00	O
	ATOM	790	OD2	ASP A	56151.478	-13.993	6.910	1.00	0.00	O
15	ATOM	791	H	ASP A	56150.725	-9.784	5.569	1.00	0.00	H
	ATOM	792	HA	ASP A	56152.526	-11.374	7.243	1.00	0.00	H
	ATOM	793	1HB	ASP A	56151.244	-11.805	4.563	1.00	0.00	H
	ATOM	794	2HB	ASP A	56152.664	-12.739	5.024	1.00	0.00	H
	ATOM	795	N	GLU A	57154.719	-11.014	6.006	1.00	0.00	N
20	ATOM	796	CA	GLU A	57156.006	-10.552	5.498	1.00	0.00	C
	ATOM	797	C	GLU A	57156.353	-11.245	4.184	1.00	0.00	C
	ATOM	798	O	GLU A	57156.738	-12.414	4.170	1.00	0.00	O
	ATOM	799	CB	GLU A	57157.107	-10.810	6.529	1.00	0.00	C
	ATOM	800	CG	GLU A	57157.130	-9.795	7.660	1.00	0.00	C
25	ATOM	801	CD	GLU A	57158.393	-9.882	8.496	1.00	0.00	C
	ATOM	802	OE1	GLU A	57158.992	-10.976	8.553	1.00	0.00	O
	ATOM	803	OE2	GLU A	57158.782	-8.856	9.092	1.00	0.00	O
	ATOM	804	H	GLU A	57154.694	-11.769	6.630	1.00	0.00	H
	ATOM	805	HA	GLU A	57155.932	-9.490	5.323	1.00	0.00	H



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	ATOM	806	1HB	GLU A	57156.960	-11.791	6.958	1.00	0.00	H
	ATOM	807	2HB	GLU A	57158.064	-10.784	6.031	1.00	0.00	H
	ATOM	808	1HG	GLU A	57157.065	-8.803	7.238	1.00	0.00	H
	ATOM	809	2HG	GLU A	57156.278	-9.969	8.301	1.00	0.00	H
5	ATOM	810	N	CYS A	58156.214	-10.515	3.082	1.00	0.00	N
	ATOM	811	CA	CYS A	58156.513	-11.058	1.762	1.00	0.00	C
	ATOM	812	C	CYS A	58157.824	-10.492	1.225	1.00	0.00	C
	ATOM	813	O	CYS A	58157.973	-9.279	1.077	1.00	0.00	O
	ATOM	814	CB	CYS A	58155.374	-10.750	0.790	1.00	0.00	C
10	ATOM	815	SG	CYS A	58155.604	-11.445	-0.862	1.00	0.00	S
	ATOM	816	H	CYS A	58155.904	-9.589	3.158	1.00	0.00	H
	ATOM	817	HA	CYS A	58156.612	-12.129	1.860	1.00	0.00	H
	ATOM	818	1HB	CYS A	58154.453	-11.150	1.188	1.00	0.00	H
	ATOM	819	2HB	CYS A	58155.279	-9.678	0.687	1.00	0.00	H
15	ATOM	820	HG	CYS A	58156.540	-11.627	-0.979	1.00	0.00	H
	ATOM	821	N	ALA A	59158.770	-11.378	0.933	1.00	0.00	N
	ATOM	822	CA	ALA A	59160.067	-10.966	0.411	1.00	0.00	C
	ATOM	823	C	ALA A	59159.915	-10.208	-0.903	1.00	0.00	C
	ATOM	824	O	ALA A	59159.155	-10.615	-1.782	1.00	0.00	O
20	ATOM	825	CB	ALA A	59160.968	-12.177	0.223	1.00	0.00	C
	ATOM	826	H	ALA A	59158.592	-12.331	1.071	1.00	0.00	H
	ATOM	827	HA	ALA A	59160.528	-10.315	1.140	1.00	0.00	H
	ATOM	828	1HB	ALA A	59160.734	-12.921	0.969	1.00	0.00	H
	ATOM	829	2HB	ALA A	59162.001	-11.877	0.326	1.00	0.00	H
25	ATOM	830	3HB	ALA A	59160.811	-12.593	-0.762	1.00	0.00	H
	ATOM	831	N	GLY A	60160.643	-9.103	-1.031	1.00	0.00	N
	ATOM	832	CA	GLY A	60160.574	-8.305	-2.241	1.00	0.00	C
	ATOM	833	C	GLY A	60160.044	-6.908	-1.985	1.00	0.00	C
	ATOM	834	O	GLY A	60160.381	-5.967	-2.703	1.00	0.00	O

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	ATOM	835	H	GLY A	60161.231	-8.827	-0.298	1.00	0.00	H
	ATOM	836	1HA	GLY A	60161.564	-8.229	-2.666	1.00	0.00	H
	ATOM	837	2HA	GLY A	60159.927	-8.799	-2.951	1.00	0.00	H
	ATOM	838	N	CYS A	61159.210	-6.773	-0.959	1.00	0.00	N
5	ATOM	839	CA	CYS A	61158.631	-5.480	-0.610	1.00	0.00	C
	ATOM	840	C	CYS A	61159.598	-4.662	0.240	1.00	0.00	C
	ATOM	841	O	CYS A	61160.705	-5.109	0.542	1.00	0.00	O
	ATOM	842	CB	CYS A	61157.314	-5.675	0.143	1.00	0.00	C
	ATOM	843	SG	CYS A	61156.183	-6.848	-0.641	1.00	0.00	S
10	ATOM	844	H	CYS A	61158.978	-7.560	-0.424	1.00	0.00	H
	ATOM	845	HA	CYS A	61158.435	-4.946	-1.527	1.00	0.00	H
	ATOM	846	1HB	CYS A	61157.525	-6.040	1.137	1.00	0.00	H
	ATOM	847	2HB	CYS A	61156.804	-4.725	0.215	1.00	0.00	H
	ATOM	848	HG	CYS A	61156.528	-7.057	-1.512	1.00	0.00	H
15	ATOM	849	N	THR A	62159.174	-3.462	0.620	1.00	0.00	N
	ATOM	850	CA	THR A	62160.003	-2.581	1.435	1.00	0.00	C
	ATOM	851	C	THR A	62159.434	-2.448	2.844	1.00	0.00	C
	ATOM	852	O	THR A	62158.454	-3.106	3.192	1.00	0.00	O
	ATOM	853	CB	THR A	62160.110	-1.201	0.784	1.00	0.00	C
20	ATOM	854	OG1	THR A	62158.839	-0.580	0.714	1.00	0.00	O
	ATOM	855	CG2	THR A	62160.677	-1.243	-0.618	1.00	0.00	C
	ATOM	856	H	THR A	62158.283	-3.161	0.347	1.00	0.00	H
	ATOM	857	HA	THR A	62160.989	-3.017	1.497	1.00	0.00	H
	ATOM	858	HB	THR A	62160.758	-0.580	1.385	1.00	0.00	H
25	ATOM	859	HG1	THR A	62158.243	-1.125	0.195	1.00	0.00	H
	ATOM	860	1HG2	THR A	62160.591	-2.245	-1.011	1.00	0.00	H
	ATOM	861	2HG2	THR A	62161.718	-0.954	-0.595	1.00	0.00	H
	ATOM	862	3HG2	THR A	62160.128	-0.561	-1.250	1.00	0.00	H
	ATOM	863	N	ASP A	63160.056	-1.594	3.649	1.00	0.00	N

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	ATOM	864	CA	ASP	A	63159.612	-1.375	5.021	1.00	0.00	C
	ATOM	865	C	ASP	A	63158.866	-0.050	5.147	1.00	0.00	C
	ATOM	866	O	ASP	A	63158.935	0.616	6.180	1.00	0.00	O
	ATOM	867	CB	ASP	A	63160.806	-1.393	5.976	1.00	0.00	C
5	ATOM	868	CG	ASP	A	63161.904	-0.439	5.547	1.00	0.00	C
	ATOM	869	OD1	ASP	A	63162.936	-0.917	5.028	1.00	0.00	O
	ATOM	870	OD2	ASP	A	63161.732	0.784	5.729	1.00	0.00	O
	ATOM	871	H	ASP	A	63160.832	-1.098	3.314	1.00	0.00	H
	ATOM	872	HA	ASP	A	63158.940	-2.178	5.284	1.00	0.00	H
10	ATOM	873	1HB	ASP	A	63160.475	-1.110	6.963	1.00	0.00	H
	ATOM	874	2HB	ASP	A	63161.216	-2.393	6.011	1.00	0.00	H
	ATOM	875	N	GLY	A	64158.156	0.325	4.089	1.00	0.00	N
	ATOM	876	CA	GLY	A	64157.408	1.569	4.101	1.00	0.00	C
	ATOM	877	C	GLY	A	64158.144	2.695	3.402	1.00	0.00	C
15	ATOM	878	O	GLY	A	64158.130	3.836	3.864	1.00	0.00	O
	ATOM	879	H	GLY	A	64158.138	-0.246	3.293	1.00	0.00	H
	ATOM	880	1HA	GLY	A	64156.460	1.412	3.608	1.00	0.00	H
	ATOM	881	2HA	GLY	A	64157.225	1.856	5.126	1.00	0.00	H
	ATOM	882	N	THR	A	65158.787	2.375	2.284	1.00	0.00	N
20	ATOM	883	CA	THR	A	65159.532	3.367	1.519	1.00	0.00	C
	ATOM	884	C	THR	A	65159.121	3.343	0.051	1.00	0.00	C
	ATOM	885	O	THR	A	65159.276	2.330	-0.631	1.00	0.00	O
	ATOM	886	CB	THR	A	65161.036	3.116	1.644	1.00	0.00	C
	ATOM	887	OG1	THR	A	65161.300	1.733	1.811	1.00	0.00	O
25	ATOM	888	CG2	THR	A	65161.670	3.849	2.806	1.00	0.00	C
	ATOM	889	H	THR	A	65158.760	1.448	1.967	1.00	0.00	H
	ATOM	890	HA	THR	A	65159.304	4.341	1.929	1.00	0.00	H
	ATOM	891	HB	THR	A	65161.522	3.447	0.738	1.00	0.00	H
	ATOM	892	HG1	THR	A	65161.736	1.394	1.027	1.00	0.00	H

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	ATOM	893	1HG2	THR	A	65161.388	3.369	3.731	1.00	0.00	H
	ATOM	894	2HG2	THR	A	65161.331	4.874	2.813	1.00	0.00	H
	ATOM	895	3HG2	THR	A	65162.745	3.826	2.702	1.00	0.00	H
	ATOM	896	N	PHE	A	66158.597	4.466	-0.431	1.00	0.00	N
5	ATOM	897	CA	PHE	A	66158.164	4.572	-1.819	1.00	0.00	C
	ATOM	898	C	PHE	A	66159.235	5.243	-2.672	1.00	0.00	C
	ATOM	899	O	PHE	A	66159.380	6.465	-2.657	1.00	0.00	O
	ATOM	900	CB	PHE	A	66156.857	5.362	-1.909	1.00	0.00	C
	ATOM	901	CG	PHE	A	66156.098	5.124	-3.184	1.00	0.00	C
10	ATOM	902	CD1	PHE	A	66155.827	3.835	-3.613	1.00	0.00	C
	ATOM	903	CD2	PHE	A	66155.657	6.190	-3.951	1.00	0.00	C
	ATOM	904	CE1	PHE	A	66155.130	3.613	-4.786	1.00	0.00	C
	ATOM	905	CE2	PHE	A	66154.959	5.974	-5.125	1.00	0.00	C
	ATOM	906	CZ	PHE	A	66154.695	4.684	-5.542	1.00	0.00	C
15	ATOM	907	H	PHE	A	66158.499	5.240	0.162	1.00	0.00	H
	ATOM	908	HA	PHE	A	66157.997	3.574	-2.192	1.00	0.00	H
	ATOM	909	1HB	PHE	A	66156.218	5.082	-1.085	1.00	0.00	H
	ATOM	910	2HB	PHE	A	66157.078	6.417	-1.844	1.00	0.00	H
	ATOM	911	HD1	PHE	A	66156.166	2.997	-3.022	1.00	0.00	H
20	ATOM	912	HD2	PHE	A	66155.863	7.198	-3.626	1.00	0.00	H
	ATOM	913	HE1	PHE	A	66154.926	2.603	-5.111	1.00	0.00	H
	ATOM	914	HE2	PHE	A	66154.621	6.812	-5.715	1.00	0.00	H
	ATOM	915	HZ	PHE	A	66154.150	4.514	-6.459	1.00	0.00	H
	ATOM	916	N	ARG	A	67159.983	4.435	-3.417	1.00	0.00	N
25	ATOM	917	CA	ARG	A	67161.042	4.949	-4.278	1.00	0.00	C
	ATOM	918	C	ARG	A	67162.083	5.713	-3.465	1.00	0.00	C
	ATOM	919	O	ARG	A	67162.723	6.636	-3.969	1.00	0.00	O
	ATOM	920	CB	ARG	A	67160.453	5.860	-5.357	1.00	0.00	C
	ATOM	921	CG	ARG	A	67159.223	5.281	-6.038	1.00	0.00	C

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	ATOM	922	CD	ARG A	67158.382	6.368	-6.687	1.00	0.00	C
	ATOM	923	NE	ARG A	67157.338	5.813	-7.546	1.00	0.00	N
	ATOM	924	CZ	ARG A	67157.567	5.297	-8.752	1.00	0.00	C
	ATOM	925	NH1	ARG A	67158.799	5.263	-9.244	1.00	0.00	N
5	ATOM	926	NH2	ARG A	67156.561	4.814	-9.466	1.00	0.00	N
	ATOM	927	H	ARG A	67159.819	3.469	-3.387	1.00	0.00	H
	ATOM	928	HA	ARG A	67161.521	4.107	-4.753	1.00	0.00	H
	ATOM	929	1HB	ARG A	67160.177	6.802	-4.906	1.00	0.00	H
	ATOM	930	2HB	ARG A	67161.205	6.037	-6.112	1.00	0.00	H
10	ATOM	931	1HG	ARG A	67159.539	4.582	-6.797	1.00	0.00	H
	ATOM	932	2HG	ARG A	67158.623	4.768	-5.300	1.00	0.00	H
	ATOM	933	1HD	ARG A	67157.919	6.959	-5.910	1.00	0.00	H
	ATOM	934	2HD	ARG A	67159.027	6.998	-7.281	1.00	0.00	H
	ATOM	935	HE	ARG A	67156.419	5.826	-7.206	1.00	0.00	H
15	ATOM	936	1HH1	ARG A	67159.562	5.625	-8.709	1.00	0.00	H
	ATOM	937	2HH1	ARG A	67158.964	4.873	-10.149	1.00	0.00	H
	ATOM	938	1HH2	ARG A	67155.630	4.837	-9.101	1.00	0.00	H
	ATOM	939	2HH2	ARG A	67156.731	4.426	-10.372	1.00	0.00	H
	ATOM	940	N	GLY A	68162.246	5.323	-2.205	1.00	0.00	N
20	ATOM	941	CA	GLY A	68163.211	5.983	-1.344	1.00	0.00	C
	ATOM	942	C	GLY A	68162.572	7.006	-0.425	1.00	0.00	C
	ATOM	943	O	GLY A	68163.149	7.375	0.598	1.00	0.00	O
	ATOM	944	H	GLY A	68161.708	4.581	-1.856	1.00	0.00	H
	ATOM	945	1HA	GLY A	68163.709	5.237	-0.743	1.00	0.00	H
25	ATOM	946	2HA	GLY A	68163.946	6.480	-1.961	1.00	0.00	H
	ATOM	947	N	THR A	69161.378	7.467	-0.787	1.00	0.00	N
	ATOM	948	CA	THR A	69160.666	8.455	0.015	1.00	0.00	C
	ATOM	949	C	THR A	69159.834	7.778	1.100	1.00	0.00	C
	ATOM	950	O	THR A	69158.714	7.331	0.851	1.00	0.00	O

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	ATOM	951	CB	THR	A	69159.763	9.310	-0.875	1.00	0.00	C
	ATOM	952	OG1	THR	A	69160.491	9.830	-1.974	1.00	0.00	O
	ATOM	953	CG2	THR	A	69159.137	10.479	-0.146	1.00	0.00	C
	ATOM	954	H	THR	A	69160.967	7.138	-1.614	1.00	0.00	H
5	ATOM	955	HA	THR	A	69161.399	9.091	0.486	1.00	0.00	H
	ATOM	956	HB	THR	A	69158.964	8.693	-1.259	1.00	0.00	H
	ATOM	957	HG1	THR	A	69161.267	10.293	-1.655	1.00	0.00	H
	ATOM	958	1HG2	THR	A	69158.646	11.126	-0.857	1.00	0.00	H
	ATOM	959	2HG2	THR	A	69159.906	11.033	0.374	1.00	0.00	H
10	ATOM	960	3HG2	THR	A	69158.413	10.113	0.567	1.00	0.00	H
	ATOM	961	N	ARG	A	70160.389	7.706	2.306	1.00	0.00	N
	ATOM	962	CA	ARG	A	70159.699	7.084	3.429	1.00	0.00	C
	ATOM	963	C	ARG	A	70158.562	7.971	3.925	1.00	0.00	C
	ATOM	964	O	ARG	A	70158.773	9.132	4.275	1.00	0.00	O
15	ATOM	965	CB	ARG	A	70160.680	6.807	4.569	1.00	0.00	C
	ATOM	966	CG	ARG	A	70160.151	5.828	5.603	1.00	0.00	C
	ATOM	967	CD	ARG	A	70160.885	5.964	6.927	1.00	0.00	C
	ATOM	968	NE	ARG	A	70162.332	5.847	6.766	1.00	0.00	N
	ATOM	969	CZ	ARG	A	70163.172	5.583	7.765	1.00	0.00	C
20	ATOM	970	NH1	ARG	A	70162.711	5.408	8.998	1.00	0.00	N
	ATOM	971	NH2	ARG	A	70164.473	5.494	7.532	1.00	0.00	N
	ATOM	972	H	ARG	A	70161.285	8.080	2.443	1.00	0.00	H
	ATOM	973	HA	ARG	A	70159.286	6.147	3.086	1.00	0.00	H
	ATOM	974	1HB	ARG	A	70161.592	6.402	4.154	1.00	0.00	H
25	ATOM	975	2HB	ARG	A	70160.906	7.738	5.069	1.00	0.00	H
	ATOM	976	1HG	ARG	A	70159.102	6.021	5.764	1.00	0.00	H
	ATOM	977	2HG	ARG	A	70160.282	4.821	5.232	1.00	0.00	H
	ATOM	978	1HD	ARG	A	70160.658	6.931	7.352	1.00	0.00	H
	ATOM	979	2HD	ARG	A	70160.543	5.189	7.596	1.00	0.00	H

	ATOM	980	HE	ARG	A	70162.699	5.971	5.866	1.00	0.00	H
	ATOM	981	1HH1	ARG	A	70161.731	5.474	9.181	1.00	0.00	H
	ATOM	982	2HH1	ARG	A	70163.347	5.210	9.744	1.00	0.00	H
	ATOM	983	1HH2	ARG	A	70164.825	5.624	6.604	1.00	0.00	H
5	ATOM	984	2HH2	ARG	A	70165.104	5.296	8.282	1.00	0.00	H
	ATOM	985	N	TYR	A	71157.354	7.415	3.953	1.00	0.00	N
	ATOM	986	CA	TYR	A	71156.182	8.156	4.406	1.00	0.00	C
	ATOM	987	C	TYR	A	71155.796	7.749	5.824	1.00	0.00	C
	ATOM	988	O	TYR	A	71155.470	8.595	6.657	1.00	0.00	O
10	ATOM	989	CB	TYR	A	71155.007	7.920	3.457	1.00	0.00	C
	ATOM	990	CG	TYR	A	71155.195	8.551	2.094	1.00	0.00	C
	ATOM	991	CD1	TYR	A	71155.167	9.930	1.937	1.00	0.00	C
	ATOM	992	CD2	TYR	A	71155.397	7.766	0.966	1.00	0.00	C
	ATOM	993	CE1	TYR	A	71155.337	10.510	0.693	1.00	0.00	C
15	ATOM	994	CE2	TYR	A	71155.568	8.337	-0.280	1.00	0.00	C
	ATOM	995	CZ	TYR	A	71155.537	9.710	-0.411	1.00	0.00	C
	ATOM	996	OH	TYR	A	71155.707	10.284	-1.650	1.00	0.00	O
	ATOM	997	H	TYR	A	71157.249	6.486	3.661	1.00	0.00	H
	ATOM	998	HA	TYR	A	71156.432	9.207	4.401	1.00	0.00	H
20	ATOM	999	1HB	TYR	A	71154.875	6.859	3.315	1.00	0.00	H
	ATOM	1000	2HB	TYR	A	71154.111	8.336	3.895	1.00	0.00	H
	ATOM	1001	HD1	TYR	A	71155.010	10.555	2.804	1.00	0.00	H
	ATOM	1002	HD2	TYR	A	71155.420	6.691	1.071	1.00	0.00	H
	ATOM	1003	HE1	TYR	A	71155.313	11.585	0.592	1.00	0.00	H
25	ATOM	1004	HE2	TYR	A	71155.725	7.710	-1.145	1.00	0.00	H
	ATOM	1005	HH	TYR	A	71156.632	10.235	-1.902	1.00	0.00	H
	ATOM	1006	N	PHE	A	72155.835	6.447	6.092	1.00	0.00	N
	ATOM	1007	CA	PHE	A	72155.488	5.928	7.409	1.00	0.00	C
	ATOM	1008	C	PHE	A	72156.491	4.871	7.858	1.00	0.00	C

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	ATOM	1009	O	PHE A	72157.311	4.403	7.068	1.00	0.00	O
	ATOM	1010	CB	PHE A	72154.079	5.335	7.393	1.00	0.00	C
	ATOM	1011	CG	PHE A	72153.863	4.329	6.298	1.00	0.00	C
	ATOM	1012	CD1	PHE A	72154.015	2.974	6.546	1.00	0.00	C
5	ATOM	1013	CD2	PHE A	72153.508	4.738	5.023	1.00	0.00	C
	ATOM	1014	CE1	PHE A	72153.817	2.046	5.541	1.00	0.00	C
	ATOM	1015	CE2	PHE A	72153.309	3.816	4.015	1.00	0.00	C
	ATOM	1016	CZ	PHE A	72153.463	2.468	4.274	1.00	0.00	C
	ATOM	1017	H	PHE A	72156.102	5.823	5.386	1.00	0.00	H
10	ATOM	1018	HA	PHE A	72155.514	6.751	8.107	1.00	0.00	H
	ATOM	1019	1HB	PHE A	72153.890	4.844	8.336	1.00	0.00	H
	ATOM	1020	2HB	PHE A	72153.361	6.132	7.260	1.00	0.00	H
	ATOM	1021	HD1	PHE A	72154.290	2.644	7.537	1.00	0.00	H
	ATOM	1022	HD2	PHE A	72153.387	5.793	4.820	1.00	0.00	H
15	ATOM	1023	HE1	PHE A	72153.939	0.993	5.746	1.00	0.00	H
	ATOM	1024	HE2	PHE A	72153.033	4.148	3.024	1.00	0.00	H
	ATOM	1025	HZ	PHE A	72153.308	1.744	3.487	1.00	0.00	H
	ATOM	1026	N	THR A	73156.422	4.500	9.133	1.00	0.00	N
	ATOM	1027	CA	THR A	73157.326	3.498	9.688	1.00	0.00	C
20	ATOM	1028	C	THR A	73156.594	2.182	9.932	1.00	0.00	C
	ATOM	1029	O	THR A	73155.767	2.079	10.838	1.00	0.00	O
	ATOM	1030	CB	THR A	73157.941	4.003	10.993	1.00	0.00	C
	ATOM	1031	OG1	THR A	73156.941	4.531	11.848	1.00	0.00	O
	ATOM	1032	CG2	THR A	73158.983	5.080	10.785	1.00	0.00	C
25	ATOM	1033	H	THR A	73155.748	4.909	9.714	1.00	0.00	H
	ATOM	1034	HA	THR A	73158.114	3.329	8.970	1.00	0.00	H
	ATOM	1035	HB	THR A	73158.417	3.176	11.499	1.00	0.00	H
	ATOM	1036	HG1	THR A	73156.596	5.344	11.472	1.00	0.00	H
	ATOM	1037	1HG2	THR A	73159.375	5.392	11.742	1.00	0.00	H



	ATOM	1038	2HG2	THR	A	73158.532	5.927	10.289	1.00	0.00	H
	ATOM	1039	3HG2	THR	A	73159.786	4.692	10.177	1.00	0.00	H
	ATOM	1040	N	CYS	A	74156.905	1.178	9.118	1.00	0.00	N
	ATOM	1041	CA	CYS	A	74156.276	-0.132	9.247	1.00	0.00	C
5	ATOM	1042	C	CYS	A	74157.327	-1.238	9.278	1.00	0.00	C
	ATOM	1043	O	CYS	A	74158.514	-0.986	9.073	1.00	0.00	O
	ATOM	1044	CB	CYS	A	74155.305	-0.369	8.090	1.00	0.00	C
	ATOM	1045	SG	CYS	A	74153.619	0.197	8.415	1.00	0.00	S
	ATOM	1046	H	CYS	A	74157.572	1.322	8.415	1.00	0.00	H
10	ATOM	1047	HA	CYS	A	74155.727	-0.147	10.176	1.00	0.00	H
	ATOM	1048	1HB	CYS	A	74155.662	0.153	7.215	1.00	0.00	H
	ATOM	1049	2HB	CYS	A	74155.261	-1.428	7.877	1.00	0.00	H
	ATOM	1050	HG	CYS	A	74153.098	0.048	7.623	1.00	0.00	H
	ATOM	1051	N	ALA	A	75156.880	-2.462	9.536	1.00	0.00	N
15	ATOM	1052	CA	ALA	A	75157.781	-3.607	9.595	1.00	0.00	C
	ATOM	1053	C	ALA	A	75158.466	-3.836	8.251	1.00	0.00	C
	ATOM	1054	O	ALA	A	75158.120	-3.206	7.251	1.00	0.00	O
	ATOM	1055	CB	ALA	A	75157.022	-4.854	10.021	1.00	0.00	C
	ATOM	1056	H	ALA	A	75155.923	-2.600	9.691	1.00	0.00	H
20	ATOM	1057	HA	ALA	A	75158.535	-3.401	10.341	1.00	0.00	H
	ATOM	1058	1HB	ALA	A	75156.775	-5.441	9.149	1.00	0.00	H
	ATOM	1059	2HB	ALA	A	75156.113	-4.566	10.529	1.00	0.00	H
	ATOM	1060	3HB	ALA	A	75157.636	-5.441	10.687	1.00	0.00	H
	ATOM	1061	N	LEU	A	76159.440	-4.741	8.235	1.00	0.00	N
25	ATOM	1062	CA	LEU	A	76160.174	-5.052	7.014	1.00	0.00	C
	ATOM	1063	C	LEU	A	76159.372	-5.997	6.124	1.00	0.00	C
	ATOM	1064	O	LEU	A	76158.793	-6.973	6.600	1.00	0.00	O
	ATOM	1065	CB	LEU	A	76161.527	-5.679	7.353	1.00	0.00	C
	ATOM	1066	CG	LEU	A	76162.600	-4.692	7.818	1.00	0.00	C

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	ATOM	1067	CD1	LEU	A	76163.504	-5.337	8.856	1.00	0.00	C
	ATOM	1068	CD2	LEU	A	76163.415	-4.197	6.633	1.00	0.00	C
	ATOM	1069	H	LEU	A	76159.671	-5.210	9.064	1.00	0.00	H
	ATOM	1070	HA	LEU	A	76160.339	-4.129	6.482	1.00	0.00	H
5	ATOM	1071	1HB	LEU	A	76161.376	-6.410	8.135	1.00	0.00	H
	ATOM	1072	2HB	LEU	A	76161.895	-6.189	6.475	1.00	0.00	H
	ATOM	1073	HG	LEU	A	76162.121	-3.839	8.276	1.00	0.00	H
	ATOM	1074	1HD1	LEU	A	76163.112	-5.145	9.844	1.00	0.00	H
	ATOM	1075	2HD1	LEU	A	76164.497	-4.919	8.777	1.00	0.00	H
10	ATOM	1076	3HD1	LEU	A	76163.547	-6.401	8.686	1.00	0.00	H
	ATOM	1077	1HD2	LEU	A	76163.394	-4.936	5.846	1.00	0.00	H
	ATOM	1078	2HD2	LEU	A	76164.436	-4.028	6.943	1.00	0.00	H
	ATOM	1079	3HD2	LEU	A	76162.993	-3.271	6.267	1.00	0.00	H
	ATOM	1080	N	LYS	A	77159.343	-5.699	4.829	1.00	0.00	N
15	ATOM	1081	CA	LYS	A	77158.612	-6.522	3.872	1.00	0.00	C
	ATOM	1082	C	LYS	A	77157.123	-6.548	4.201	1.00	0.00	C
	ATOM	1083	O	LYS	A	77156.500	-7.610	4.224	1.00	0.00	O
	ATOM	1084	CB	LYS	A	77159.172	-7.946	3.859	1.00	0.00	C
	ATOM	1085	CG	LYS	A	77160.683	-8.006	3.706	1.00	0.00	C
20	ATOM	1086	CD	LYS	A	77161.119	-7.581	2.314	1.00	0.00	C
	ATOM	1087	CE	LYS	A	77162.513	-6.976	2.326	1.00	0.00	C
	ATOM	1088	NZ	LYS	A	77163.560	-7.995	2.614	1.00	0.00	N
	ATOM	1089	H	LYS	A	77159.825	-4.908	4.510	1.00	0.00	H
	ATOM	1090	HA	LYS	A	77158.744	-6.086	2.892	1.00	0.00	H
25	ATOM	1091	1HB	LYS	A	77158.907	-8.433	4.787	1.00	0.00	H
	ATOM	1092	2HB	LYS	A	77158.728	-8.489	3.038	1.00	0.00	H
	ATOM	1093	1HG	LYS	A	77161.135	-7.344	4.431	1.00	0.00	H
	ATOM	1094	2HG	LYS	A	77161.014	-9.018	3.886	1.00	0.00	H
	ATOM	1095	1HD	LYS	A	77161.120	-8.447	1.668	1.00	0.00	H

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	ATOM	1096	2HD	LYS A	77160.421	-6.849	1.936	1.00	0.00	H
	ATOM	1097	1HE	LYS A	77162.708	-6.535	1.361	1.00	0.00	H
	ATOM	1098	2HE	LYS A	77162.552	-6.209	3.086	1.00	0.00	H
	ATOM	1099	1HZ	LYS A	77163.525	-8.270	3.616	1.00	0.00	H
5	ATOM	1100	2HZ	LYS A	77164.502	-7.610	2.403	1.00	0.00	H
	ATOM	1101	3HZ	LYS A	77163.404	-8.841	2.028	1.00	0.00	H
	ATOM	1102	N	LYS A	78156.558	-5.373	4.456	1.00	0.00	N
	ATOM	1103	CA	LYS A	78155.142	-5.261	4.785	1.00	0.00	C
	ATOM	1104	C	LYS A	78154.602	-3.885	4.407	1.00	0.00	C
10	ATOM	1105	O	LYS A	78153.781	-3.312	5.123	1.00	0.00	O
	ATOM	1106	CB	LYS A	78154.921	-5.517	6.278	1.00	0.00	C
	ATOM	1107	CG	LYS A	78155.477	-6.850	6.755	1.00	0.00	C
	ATOM	1108	CD	LYS A	78155.149	-7.097	8.218	1.00	0.00	C
	ATOM	1109	CE	LYS A	78153.954	-8.023	8.373	1.00	0.00	C
15	ATOM	1110	NZ	LYS A	78153.139	-7.684	9.573	1.00	0.00	N
	ATOM	1111	H	LYS A	78157.106	-4.561	4.423	1.00	0.00	H
	ATOM	1112	HA	LYS A	78154.610	-6.012	4.219	1.00	0.00	H
	ATOM	1113	1HB	LYS A	78155.400	-4.729	6.840	1.00	0.00	H
	ATOM	1114	2HB	LYS A	78153.861	-5.500	6.482	1.00	0.00	H
20	ATOM	1115	1HG	LYS A	78155.046	-7.641	6.161	1.00	0.00	H
	ATOM	1116	2HG	LYS A	78156.550	-6.845	6.631	1.00	0.00	H
	ATOM	1117	1HD	LYS A	78156.005	-7.550	8.697	1.00	0.00	H
	ATOM	1118	2HD	LYS A	78154.926	-6.152	8.692	1.00	0.00	H
	ATOM	1119	1HE	LYS A	78153.332	-7.938	7.493	1.00	0.00	H
25	ATOM	1120	2HE	LYS A	78154.309	-9.038	8.464	1.00	0.00	H
	ATOM	1121	1HZ	LYS A	78152.325	-8.326	9.645	1.00	0.00	H
	ATOM	1122	2HZ	LYS A	78152.792	-6.707	9.505	1.00	0.00	H
	ATOM	1123	3HZ	LYS A	78153.716	-7.775	10.433	1.00	0.00	H
	ATOM	1124	N	ALA A	79155.068	-3.363	3.278	1.00	0.00	N

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	ATOM	1125	CA	ALA A	79154.633	-2.055	2.805	1.00	0.00	C
	ATOM	1126	C	ALA A	79154.555	-2.020	1.282	1.00	0.00	C
	ATOM	1127	O	ALA A	79155.578	-1.989	0.599	1.00	0.00	O
	ATOM	1128	CB	ALA A	79155.571	-0.971	3.312	1.00	0.00	C
5	ATOM	1129	H	ALA A	79155.721	-3.869	2.751	1.00	0.00	H
	ATOM	1130	HA	ALA A	79153.648	-1.864	3.209	1.00	0.00	H
	ATOM	1131	1HB	ALA A	79156.010	-1.283	4.248	1.00	0.00	H
	ATOM	1132	2HB	ALA A	79155.017	-0.056	3.462	1.00	0.00	H
	ATOM	1133	3HB	ALA A	79156.353	-0.802	2.586	1.00	0.00	H
10	ATOM	1134	N	LEU A	80153.334	-2.025	0.757	1.00	0.00	N
	ATOM	1135	CA	LEU A	80153.122	-1.994	-0.685	1.00	0.00	C
	ATOM	1136	C	LEU A	80152.248	-0.809	-1.081	1.00	0.00	C
	ATOM	1137	O	LEU A	80151.047	-0.791	-0.810	1.00	0.00	O
	ATOM	1138	CB	LEU A	80152.476	-3.299	-1.154	1.00	0.00	C
15	ATOM	1139	CG	LEU A	80152.145	-3.358	-2.647	1.00	0.00	C
	ATOM	1140	CD1	LEU A	80153.393	-3.669	-3.458	1.00	0.00	C
	ATOM	1141	CD2	LEU A	80151.062	-4.394	-2.911	1.00	0.00	C
	ATOM	1142	H	LEU A	80152.557	-2.050	1.353	1.00	0.00	H
	ATOM	1143	HA	LEU A	80154.086	-1.889	-1.160	1.00	0.00	H
20	ATOM	1144	1HB	LEU A	80153.147	-4.113	-0.923	1.00	0.00	H
	ATOM	1145	2HB	LEU A	80151.559	-3.442	-0.600	1.00	0.00	H
	ATOM	1146	HG	LEU A	80151.772	-2.395	-2.964	1.00	0.00	H
	ATOM	1147	1HD1	LEU A	80153.335	-3.169	-4.413	1.00	0.00	H
	ATOM	1148	2HD1	LEU A	80153.464	-4.735	-3.614	1.00	0.00	H
25	ATOM	1149	3HD1	LEU A	80154.265	-3.325	-2.923	1.00	0.00	H
	ATOM	1150	1HD2	LEU A	80150.263	-4.270	-2.196	1.00	0.00	H
	ATOM	1151	2HD2	LEU A	80151.481	-5.385	-2.814	1.00	0.00	H
	ATOM	1152	3HD2	LEU A	80150.675	-4.263	-3.911	1.00	0.00	H
	ATOM	1153	N	PHE A	81152.858	0.182	-1.724	1.00	0.00	N

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	ATOM	1154	CA	PHE A	81152.135	1.371	-2.158	1.00	0.00	C
	ATOM	1155	C	PHE A	81151.374	1.103	-3.452	1.00	0.00	C
	ATOM	1156	O	PHE A	81151.879	0.436	-4.355	1.00	0.00	O
	ATOM	1157	CB	PHE A	81153.104	2.538	-2.355	1.00	0.00	C
5	ATOM	1158	CG	PHE A	81153.883	2.888	-1.119	1.00	0.00	C
	ATOM	1159	CD1	PHE A	81153.494	3.947	-0.316	1.00	0.00	C
	ATOM	1160	CD2	PHE A	81155.005	2.157	-0.761	1.00	0.00	C
	ATOM	1161	CE1	PHE A	81154.209	4.271	0.822	1.00	0.00	C
	ATOM	1162	CE2	PHE A	81155.724	2.476	0.375	1.00	0.00	C
10	ATOM	1163	CZ	PHE A	81155.325	3.534	1.167	1.00	0.00	C
	ATOM	1164	H	PHE A	81153.817	0.110	-1.911	1.00	0.00	H
	ATOM	1165	HA	PHE A	81151.428	1.630	-1.385	1.00	0.00	H
	ATOM	1166	1HB	PHE A	81153.810	2.283	-3.131	1.00	0.00	H
	ATOM	1167	2HB	PHE A	81152.546	3.414	-2.656	1.00	0.00	H
15	ATOM	1168	HD1	PHE A	81152.621	4.524	-0.585	1.00	0.00	H
	ATOM	1169	HD2	PHE A	81155.317	1.329	-1.381	1.00	0.00	H
	ATOM	1170	HE1	PHE A	81153.895	5.100	1.440	1.00	0.00	H
	ATOM	1171	HE2	PHE A	81156.596	1.898	0.643	1.00	0.00	H
	ATOM	1172	HZ	PHE A	81155.884	3.785	2.056	1.00	0.00	H
20	ATOM	1173	N	VAL A	82150.155	1.628	-3.535	1.00	0.00	N
	ATOM	1174	CA	VAL A	82149.324	1.445	-4.718	1.00	0.00	C
	ATOM	1175	C	VAL A	82148.369	2.618	-4.907	1.00	0.00	C
	ATOM	1176	O	VAL A	82148.190	3.437	-4.005	1.00	0.00	O
	ATOM	1177	CB	VAL A	82148.507	0.142	-4.635	1.00	0.00	C
25	ATOM	1178	CG1	VAL A	82149.423	-1.069	-4.717	1.00	0.00	C
	ATOM	1179	CG2	VAL A	82147.682	0.111	-3.358	1.00	0.00	C
	ATOM	1180	H	VAL A	82149.807	2.151	-2.782	1.00	0.00	H
	ATOM	1181	HA	VAL A	82149.976	1.382	-5.577	1.00	0.00	H
	ATOM	1182	HB	VAL A	82147.830	0.111	-5.477	1.00	0.00	H

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	ATOM	1183	1HG1	VAL	A	82150.197	-0.886	-5.447	1.00	0.00	H
	ATOM	1184	2HG1	VAL	A	82148.848	-1.936	-5.010	1.00	0.00	H
	ATOM	1185	3HG1	VAL	A	82149.873	-1.247	-3.751	1.00	0.00	H
	ATOM	1186	1HG2	VAL	A	82147.413	1.118	-3.078	1.00	0.00	H
5	ATOM	1187	2HG2	VAL	A	82148.261	-0.341	-2.566	1.00	0.00	H
	ATOM	1188	3HG2	VAL	A	82146.784	-0.468	-3.523	1.00	0.00	H
	ATOM	1189	N	LYS	A	83147.757	2.694	-6.084	1.00	0.00	N
	ATOM	1190	CA	LYS	A	83146.820	3.768	-6.391	1.00	0.00	C
	ATOM	1191	C	LYS	A	83145.576	3.672	-5.515	1.00	0.00	C
10	ATOM	1192	O	LYS	A	83144.875	2.659	-5.521	1.00	0.00	O
	ATOM	1193	CB	LYS	A	83146.424	3.721	-7.868	1.00	0.00	C
	ATOM	1194	CG	LYS	A	83147.590	3.945	-8.818	1.00	0.00	C
	ATOM	1195	CD	LYS	A	83147.222	3.577	-10.246	1.00	0.00	C
	ATOM	1196	CE	LYS	A	83147.832	4.546	-11.246	1.00	0.00	C
15	ATOM	1197	NZ	LYS	A	83148.273	3.859	-12.490	1.00	0.00	N
	ATOM	1198	H	LYS	A	83147.941	2.011	-6.763	1.00	0.00	H
	ATOM	1199	HA	LYS	A	83147.313	4.707	-6.190	1.00	0.00	H
	ATOM	1200	1HB	LYS	A	83145.993	2.754	-8.081	1.00	0.00	H
	ATOM	1201	2HB	LYS	A	83145.684	4.484	-8.054	1.00	0.00	H
20	ATOM	1202	1HG	LYS	A	83147.871	4.986	-8.786	1.00	0.00	H
	ATOM	1203	2HG	LYS	A	83148.421	3.334	-8.500	1.00	0.00	H
	ATOM	1204	1HD	LYS	A	83147.587	2.583	-10.456	1.00	0.00	H
	ATOM	1205	2HD	LYS	A	83146.147	3.598	-10.349	1.00	0.00	H
	ATOM	1206	1HE	LYS	A	83147.095	5.293	-11.500	1.00	0.00	H
25	ATOM	1207	2HE	LYS	A	83148.686	5.025	-10.788	1.00	0.00	H
	ATOM	1208	1HZ	LYS	A	83149.279	3.605	-12.422	1.00	0.00	H
	ATOM	1209	2HZ	LYS	A	83148.139	4.483	-13.310	1.00	0.00	H
	ATOM	1210	3HZ	LYS	A	83147.717	2.991	-12.635	1.00	0.00	H
	ATOM	1211	N	LEU	A	84145.307	4.735	-4.765	1.00	0.00	N

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	ATOM	1212	CA	LEU A	84144.147	4.776	-3.883	1.00	0.00	C
	ATOM	1213	C	LEU A	84142.855	4.587	-4.673	1.00	0.00	C
	ATOM	1214	O	LEU A	84141.893	4.002	-4.176	1.00	0.00	O
	ATOM	1215	CB	LEU A	84144.108	6.105	-3.127	1.00	0.00	C
5	ATOM	1216	CG	LEU A	84142.878	6.316	-2.242	1.00	0.00	C
	ATOM	1217	CD1	LEU A	84143.016	5.538	-0.942	1.00	0.00	C
	ATOM	1218	CD2	LEU A	84142.672	7.795	-1.961	1.00	0.00	C
	ATOM	1219	H	LEU A	84145.903	5.510	-4.806	1.00	0.00	H
	ATOM	1220	HA	LEU A	84144.242	3.970	-3.172	1.00	0.00	H
10	ATOM	1221	1HB	LEU A	84144.989	6.165	-2.504	1.00	0.00	H
	ATOM	1222	2HB	LEU A	84144.145	6.906	-3.849	1.00	0.00	H
	ATOM	1223	HG	LEU A	84142.004	5.947	-2.760	1.00	0.00	H
	ATOM	1224	1HD1	LEU A	84142.131	5.683	-0.340	1.00	0.00	H
	ATOM	1225	2HD1	LEU A	84143.882	5.890	-0.401	1.00	0.00	H
15	ATOM	1226	3HD1	LEU A	84143.134	4.486	-1.162	1.00	0.00	H
	ATOM	1227	1HD2	LEU A	84141.827	7.923	-1.300	1.00	0.00	H
	ATOM	1228	2HD2	LEU A	84142.485	8.316	-2.887	1.00	0.00	H
	ATOM	1229	3HD2	LEU A	84143.558	8.200	-1.493	1.00	0.00	H
	ATOM	1230	N	LYS A	85142.843	5.085	-5.904	1.00	0.00	N
20	ATOM	1231	CA	LYS A	85141.670	4.971	-6.764	1.00	0.00	C
	ATOM	1232	C	LYS A	85141.371	3.510	-7.086	1.00	0.00	C
	ATOM	1233	O	LYS A	85140.226	3.147	-7.355	1.00	0.00	O
	ATOM	1234	CB	LYS A	85141.882	5.757	-8.059	1.00	0.00	C
	ATOM	1235	CG	LYS A	85143.234	5.509	-8.708	1.00	0.00	C
25	ATOM	1236	CD	LYS A	85144.209	6.639	-8.416	1.00	0.00	C
	ATOM	1237	CE	LYS A	85145.050	6.980	-9.635	1.00	0.00	C
	ATOM	1238	NZ	LYS A	85145.823	8.237	-9.443	1.00	0.00	N
	ATOM	1239	H	LYS A	85143.642	5.540	-6.244	1.00	0.00	H
	ATOM	1240	HA	LYS A	85140.829	5.389	-6.232	1.00	0.00	H

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	ATOM	1241	1HB	LYS A	85141.112	5.481	-8.764	1.00	0.00	H
	ATOM	1242	2HB	LYS A	85141.798	6.812	-7.842	1.00	0.00	H
	ATOM	1243	1HG	LYS A	85143.642	4.587	-8.325	1.00	0.00	H
	ATOM	1244	2HG	LYS A	85143.099	5.429	-9.776	1.00	0.00	H
5	ATOM	1245	1HD	LYS A	85143.653	7.515	-8.119	1.00	0.00	H
	ATOM	1246	2HD	LYS A	85144.863	6.336	-7.611	1.00	0.00	H
	ATOM	1247	1HE	LYS A	85145.739	6.169	-9.820	1.00	0.00	H
	ATOM	1248	2HE	LYS A	85144.396	7.096	-10.487	1.00	0.00	H
	ATOM	1249	1HZ	LYS A	85145.341	8.853	-8.758	1.00	0.00	H
10	ATOM	1250	2HZ	LYS A	85145.911	8.745	-10.346	1.00	0.00	H
	ATOM	1251	3HZ	LYS A	85146.777	8.020	-9.087	1.00	0.00	H
	ATOM	1252	N	SER A	86142.405	2.675	-7.058	1.00	0.00	N
	ATOM	1253	CA	SER A	86142.248	1.255	-7.348	1.00	0.00	C
	ATOM	1254	C	SER A	86142.150	0.442	-6.061	1.00	0.00	C
15	ATOM	1255	O	SER A	86142.547	-0.722	-6.017	1.00	0.00	O
	ATOM	1256	CB	SER A	86143.421	0.752	-8.193	1.00	0.00	C
	ATOM	1257	OG	SER A	86143.705	1.648	-9.254	1.00	0.00	O
	ATOM	1258	H	SER A	86143.295	3.023	-6.838	1.00	0.00	H
	ATOM	1259	HA	SER A	86141.334	1.130	-7.908	1.00	0.00	H
20	ATOM	1260	1HB	SER A	86144.298	0.663	-7.569	1.00	0.00	H
	ATOM	1261	2HB	SER A	86143.176	-0.214	-8.608	1.00	0.00	H
	ATOM	1262	HG	SER A	86144.344	1.247	-9.848	1.00	0.00	H
	ATOM	1263	N	CYS A	87141.618	1.064	-5.012	1.00	0.00	N
	ATOM	1264	CA	CYS A	87141.467	0.398	-3.724	1.00	0.00	C
25	ATOM	1265	C	CYS A	87139.994	0.260	-3.353	1.00	0.00	C
	ATOM	1266	O	CYS A	87139.165	1.081	-3.747	1.00	0.00	O
	ATOM	1267	CB	CYS A	87142.207	1.175	-2.634	1.00	0.00	C
	ATOM	1268	SG	CYS A	87143.989	0.867	-2.590	1.00	0.00	S
	ATOM	1269	H	CYS A	87141.319	1.992	-5.108	1.00	0.00	H



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	ATOM	1270	HA	CYS A	87141.898	-0.588	-3.808	1.00	0.00	H
	ATOM	1271	1HB	CYS A	87142.062	2.233	-2.795	1.00	0.00	H
	ATOM	1272	2HB	CYS A	87141.802	0.904	-1.670	1.00	0.00	H
	ATOM	1273	HG	CYS A	87144.418	1.539	-3.125	1.00	0.00	H
5	ATOM	1274	N	ARG A	88139.674	-0.783	-2.595	1.00	0.00	N
	ATOM	1275	CA	ARG A	88138.300	-1.027	-2.172	1.00	0.00	C
	ATOM	1276	C	ARG A	88138.226	-1.247	-0.662	1.00	0.00	C
	ATOM	1277	O	ARG A	88139.134	-1.828	-0.067	1.00	0.00	O
	ATOM	1278	CB	ARG A	88137.728	-2.243	-2.903	1.00	0.00	C
10	ATOM	1279	CG	ARG A	88137.135	-1.911	-4.264	1.00	0.00	C
	ATOM	1280	CD	ARG A	88135.620	-1.785	-4.199	1.00	0.00	C
	ATOM	1281	NE	ARG A	88135.175	-0.413	-4.428	1.00	0.00	N
	ATOM	1282	CZ	ARG A	88135.192	0.183	-5.618	1.00	0.00	C
	ATOM	1283	NH1	ARG A	88135.631	-0.468	-6.688	1.00	0.00	N
15	ATOM	1284	NH2	ARG A	88134.768	1.433	-5.740	1.00	0.00	N
	ATOM	1285	H	ARG A	88140.378	-1.403	-2.312	1.00	0.00	H
	ATOM	1286	HA	ARG A	88137.715	-0.156	-2.427	1.00	0.00	H
	ATOM	1287	1HB	ARG A	88138.517	-2.967	-3.046	1.00	0.00	H
	ATOM	1288	2HB	ARG A	88136.953	-2.684	-2.294	1.00	0.00	H
20	ATOM	1289	1HG	ARG A	88137.549	-0.974	-4.607	1.00	0.00	H
	ATOM	1290	2HG	ARG A	88137.392	-2.697	-4.958	1.00	0.00	H
	ATOM	1291	1HD	ARG A	88135.186	-2.424	-4.953	1.00	0.00	H
	ATOM	1292	2HD	ARG A	88135.285	-2.103	-3.222	1.00	0.00	H
	ATOM	1293	HE	ARG A	88134.846	0.092	-3.655	1.00	0.00	H
25	ATOM	1294	1HH1	ARG A	88135.952	-1.412	-6.603	1.00	0.00	H
	ATOM	1295	2HH1	ARG A	88135.640	-0.016	-7.580	1.00	0.00	H
	ATOM	1296	1HH2	ARG A	88134.436	1.929	-4.938	1.00	0.00	H
	ATOM	1297	2HH2	ARG A	88134.780	1.881	-6.634	1.00	0.00	H
	ATOM	1298	N	PRO A	89137.138	-0.787	-0.019	1.00	0.00	N

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	ATOM	1299	CA	PRO A	89136.954	-0.940	1.428	1.00	0.00	C
	ATOM	1300	C	PRO A	89137.091	-2.390	1.877	1.00	0.00	C
	ATOM	1301	O	PRO A	89136.444	-3.284	1.330	1.00	0.00	O
	ATOM	1302	CB	PRO A	89135.526	-0.441	1.664	1.00	0.00	C
5	ATOM	1303	CG	PRO A	89135.249	0.476	0.523	1.00	0.00	C
	ATOM	1304	CD	PRO A	89136.005	-0.084	-0.649	1.00	0.00	C
	ATOM	1305	HA	PRO A	89137.650	-0.326	1.981	1.00	0.00	H
	ATOM	1306	1HB	PRO A	89134.846	-1.280	1.672	1.00	0.00	H
	ATOM	1307	2HB	PRO A	89135.476	0.079	2.609	1.00	0.00	H
10	ATOM	1308	1HG	PRO A	89134.189	0.491	0.314	1.00	0.00	H
	ATOM	1309	2HG	PRO A	89135.602	1.469	0.758	1.00	0.00	H
	ATOM	1310	1HD	PRO A	89135.384	-0.771	-1.205	1.00	0.00	H
	ATOM	1311	2HD	PRO A	89136.354	0.714	-1.288	1.00	0.00	H
	ATOM	1312	N	ASP A	90137.937	-2.618	2.876	1.00	0.00	N
15	ATOM	1313	CA	ASP A	90138.157	-3.961	3.398	1.00	0.00	C
	ATOM	1314	C	ASP A	90137.366	-4.181	4.683	1.00	0.00	C
	ATOM	1315	O	ASP A	90137.759	-3.716	5.754	1.00	0.00	O
	ATOM	1316	CB	ASP A	90139.647	-4.192	3.658	1.00	0.00	C
	ATOM	1317	CG	ASP A	90140.036	-5.653	3.537	1.00	0.00	C
20	ATOM	1318	OD1	ASP A	90140.335	-6.275	4.578	1.00	0.00	O
	ATOM	1319	OD2	ASP A	90140.041	-6.174	2.403	1.00	0.00	O
	ATOM	1320	H	ASP A	90138.424	-1.866	3.271	1.00	0.00	H
	ATOM	1321	HA	ASP A	90137.817	-4.667	2.655	1.00	0.00	H
	ATOM	1322	1HB	ASP A	90140.223	-3.626	2.941	1.00	0.00	H
25	ATOM	1323	2HB	ASP A	90139.889	-3.855	4.654	1.00	0.00	H
	ATOM	1324	N	SER A	91136.249	-4.893	4.571	1.00	0.00	N
	ATOM	1325	CA	SER A	91135.403	-5.173	5.725	1.00	0.00	C
	ATOM	1326	C	SER A	91135.694	-6.560	6.292	1.00	0.00	C
	ATOM	1327	O	SER A	91134.834	-7.177	6.920	1.00	0.00	O

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	ATOM	1328	CB	SER A	91133.928	-5.070	5.339	1.00	0.00	C
	ATOM	1329	OG	SER A	91133.139	-4.656	6.440	1.00	0.00	O
	ATOM	1330	H	SER A	91135.988	-5.237	3.691	1.00	0.00	H
	ATOM	1331	HA	SER A	91135.620	-4.435	6.482	1.00	0.00	H
5	ATOM	1332	1HB	SER A	91133.815	-4.351	4.541	1.00	0.00	H
	ATOM	1333	2HB	SER A	91133.577	-6.036	5.005	1.00	0.00	H
	ATOM	1334	HG	SER A	91132.431	-5.288	6.584	1.00	0.00	H
	ATOM	1335	N	ARG A	92136.912	-7.045	6.069	1.00	0.00	N
	ATOM	1336	CA	ARG A	92137.312	-8.358	6.561	1.00	0.00	C
10	ATOM	1337	C	ARG A	92137.327	-8.385	8.086	1.00	0.00	C
	ATOM	1338	O	ARG A	92137.097	-9.426	8.702	1.00	0.00	O
	ATOM	1339	CB	ARG A	92138.693	-8.731	6.019	1.00	0.00	C
	ATOM	1340	CG	ARG A	92138.670	-9.221	4.580	1.00	0.00	C
	ATOM	1341	CD	ARG A	92137.825	-10.475	4.432	1.00	0.00	C
15	ATOM	1342	NE	ARG A	92136.492	-10.179	3.911	1.00	0.00	N
	ATOM	1343	CZ	ARG A	92136.232	-9.956	2.624	1.00	0.00	C
	ATOM	1344	NH1	ARG A	92137.209	-9.994	1.726	1.00	0.00	N
	ATOM	1345	NH2	ARG A	92134.992	-9.695	2.235	1.00	0.00	N
	ATOM	1346	H	ARG A	92137.557	-6.509	5.564	1.00	0.00	H
20	ATOM	1347	HA	ARG A	92136.589	-9.078	6.208	1.00	0.00	H
	ATOM	1348	1HB	ARG A	92139.334	-7.863	6.072	1.00	0.00	H
	ATOM	1349	2HB	ARG A	92139.110	-9.513	6.636	1.00	0.00	H
	ATOM	1350	1HG	ARG A	92138.257	-8.444	3.953	1.00	0.00	H
	ATOM	1351	2HG	ARG A	92139.681	-9.438	4.269	1.00	0.00	H
25	ATOM	1352	1HD	ARG A	92138.324	-11.152	3.755	1.00	0.00	H
	ATOM	1353	2HD	ARG A	92137.726	-10.944	5.400	1.00	0.00	H
	ATOM	1354	HE	ARG A	92135.752	-10.145	4.552	1.00	0.00	H
	ATOM	1355	1HH1	ARG A	92138.147	-10.191	2.013	1.00	0.00	H
	ATOM	1356	2HH1	ARG A	92137.007	-9.826	0.761	1.00	0.00	H

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	ATOM	1357	1HH2	ARG	A	92134.252	-9.666	2.907	1.00	0.00	H
	ATOM	1358	2HH2	ARG	A	92134.796	-9.528	1.268	1.00	0.00	H
	ATOM	1359	N	PHE	A	93137.598	-7.232	8.690	1.00	0.00	N
	ATOM	1360	CA	PHE	A	93137.643	-7.121	10.144	1.00	0.00	C
5	ATOM	1361	C	PHE	A	93136.506	-6.246	10.661	1.00	0.00	C
	ATOM	1362	O	PHE	A	93136.622	-5.622	11.715	1.00	0.00	O
	ATOM	1363	CB	PHE	A	93138.988	-6.547	10.591	1.00	0.00	C
	ATOM	1364	CG	PHE	A	93140.161	-7.413	10.229	1.00	0.00	C
	ATOM	1365	CD1	PHE	A	93140.944	-7.988	11.217	1.00	0.00	C
10	ATOM	1366	CD2	PHE	A	93140.480	-7.652	8.903	1.00	0.00	C
	ATOM	1367	CE1	PHE	A	93142.023	-8.787	10.889	1.00	0.00	C
	ATOM	1368	CE2	PHE	A	93141.558	-8.449	8.567	1.00	0.00	C
	ATOM	1369	CZ	PHE	A	93142.331	-9.016	9.562	1.00	0.00	C
	ATOM	1370	H	PHE	A	93137.773	-6.436	8.146	1.00	0.00	H
15	ATOM	1371	HA	PHE	A	93137.532	-8.114	10.555	1.00	0.00	H
	ATOM	1372	1HB	PHE	A	93139.132	-5.582	10.125	1.00	0.00	H
	ATOM	1373	2HB	PHE	A	93138.981	-6.425	11.664	1.00	0.00	H
	ATOM	1374	HD1	PHE	A	93140.704	-7.809	12.255	1.00	0.00	H
	ATOM	1375	HD2	PHE	A	93139.877	-7.208	8.124	1.00	0.00	H
20	ATOM	1376	HE1	PHE	A	93142.625	-9.228	11.668	1.00	0.00	H
	ATOM	1377	HE2	PHE	A	93141.797	-8.627	7.529	1.00	0.00	H
	ATOM	1378	HZ	PHE	A	93143.175	-9.640	9.302	1.00	0.00	H
	ATOM	1379	N	ALA	A	94135.407	-6.203	9.912	1.00	0.00	N
	ATOM	1380	CA	ALA	A	94134.252	-5.403	10.300	1.00	0.00	C
25	ATOM	1381	C	ALA	A	94133.515	-6.036	11.474	1.00	0.00	C
	ATOM	1382	O	ALA	A	94133.186	-7.221	11.448	1.00	0.00	O
	ATOM	1383	CB	ALA	A	94133.311	-5.227	9.116	1.00	0.00	C
	ATOM	1384	H	ALA	A	94135.373	-6.721	9.081	1.00	0.00	H
	ATOM	1385	HA	ALA	A	94134.607	-4.426	10.594	1.00	0.00	H

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	ATOM	1386	1HB	ALA	A	94133.533	-4.295	8.616	1.00	0.00	H
	ATOM	1387	2HB	ALA	A	94132.291	-5.213	9.466	1.00	0.00	H
	ATOM	1388	3HB	ALA	A	94133.444	-6.047	8.426	1.00	0.00	H
	ATOM	1389	N	SER	A	95133.257	-5.236	12.504	1.00	0.00	N
5	ATOM	1390	CA	SER	A	95132.557	-5.717	13.689	1.00	0.00	C
	ATOM	1391	C	SER	A	95131.078	-5.939	13.396	1.00	0.00	C
	ATOM	1392	O	SER	A	95130.347	-4.997	13.093	1.00	0.00	O
	ATOM	1393	CB	SER	A	95132.718	-4.723	14.840	1.00	0.00	C
	ATOM	1394	OG	SER	A	95134.071	-4.626	15.247	1.00	0.00	O
10	ATOM	1395	H	SER	A	95133.544	-4.299	12.466	1.00	0.00	H
	ATOM	1396	HA	SER	A	95133.001	-6.659	13.975	1.00	0.00	H
	ATOM	1397	1HB	SER	A	95132.379	-3.748	14.522	1.00	0.00	H
	ATOM	1398	2HB	SER	A	95132.124	-5.052	15.682	1.00	0.00	H
	ATOM	1399	HG	SER	A	95134.111	-4.383	16.175	1.00	0.00	H
15	ATOM	1400	N	LEU	A	96130.643	-7.192	13.488	1.00	0.00	N
	ATOM	1401	CA	LEU	A	96129.250	-7.537	13.233	1.00	0.00	C
	ATOM	1402	C	LEU	A	96128.828	-8.744	14.064	1.00	0.00	C
	ATOM	1403	O	LEU	A	96128.824	-9.876	13.579	1.00	0.00	O
	ATOM	1404	CB	LEU	A	96129.039	-7.830	11.746	1.00	0.00	C
20	ATOM	1405	CG	LEU	A	96128.713	-6.609	10.885	1.00	0.00	C
	ATOM	1406	CD1	LEU	A	96129.040	-6.881	9.425	1.00	0.00	C
	ATOM	1407	CD2	LEU	A	96127.249	-6.224	11.042	1.00	0.00	C
	ATOM	1408	H	LEU	A	96131.274	-7.900	13.734	1.00	0.00	H
	ATOM	1409	HA	LEU	A	96128.642	-6.691	13.513	1.00	0.00	H
25	ATOM	1410	1HB	LEU	A	96129.940	-8.286	11.359	1.00	0.00	H
	ATOM	1411	2HB	LEU	A	96128.229	-8.537	11.650	1.00	0.00	H
	ATOM	1412	HG	LEU	A	96129.316	-5.774	11.212	1.00	0.00	H
	ATOM	1413	1HD1	LEU	A	96129.355	-5.964	8.950	1.00	0.00	H
	ATOM	1414	2HD1	LEU	A	96128.163	-7.263	8.924	1.00	0.00	H

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	ATOM	1415	3HD1	LEU	A	96129.835	-7.609	9.364	1.00	0.00	H
	ATOM	1416	1HD2	LEU	A	96126.884	-5.810	10.114	1.00	0.00	H
	ATOM	1417	2HD2	LEU	A	96127.153	-5.488	11.828	1.00	0.00	H
	ATOM	1418	3HD2	LEU	A	96126.672	-7.100	11.298	1.00	0.00	H
5	ATOM	1419	N	GLN	A	97128.471	-8.495	15.320	1.00	0.00	N
	ATOM	1420	CA	GLN	A	97128.046	-9.560	16.220	1.00	0.00	C
	ATOM	1421	C	GLN	A	97126.659	-9.272	16.790	1.00	0.00	C
	ATOM	1422	O	GLN	A	97126.264	-8.114	16.928	1.00	0.00	O
	ATOM	1423	CB	GLN	A	97129.053	-9.725	17.361	1.00	0.00	C
10	ATOM	1424	CG	GLN	A	97130.174	-10.704	17.045	1.00	0.00	C
	ATOM	1425	CD	GLN	A	97130.874	-11.208	18.292	1.00	0.00	C
	ATOM	1426	OE1	GLN	A	97130.231	-11.632	19.251	1.00	0.00	O
	ATOM	1427	NE2	GLN	A	97132.201	-11.162	18.283	1.00	0.00	N
	ATOM	1428	H	GLN	A	97128.494	-7.572	15.649	1.00	0.00	H
15	ATOM	1429	HA	GLN	A	97128.005	-10.478	15.653	1.00	0.00	H
	ATOM	1430	1HB	GLN	A	97129.495	-8.764	17.578	1.00	0.00	H
	ATOM	1431	2HB	GLN	A	97128.533	-10.079	18.238	1.00	0.00	H
	ATOM	1432	1HG	GLN	A	97129.758	-11.550	16.518	1.00	0.00	H
	ATOM	1433	2HG	GLN	A	97130.899	-10.209	16.417	1.00	0.00	H
20	ATOM	1434	1HE2	GLN	A	97132.647	-10.812	17.485	1.00	0.00	H
	ATOM	1435	2HE2	GLN	A	97132.681	-11.482	19.076	1.00	0.00	H
	ATOM	1436	N	PRO	A	98125.898	-10.327	17.129	1.00	0.00	N
	ATOM	1437	CA	PRO	A	98124.549	-10.181	17.686	1.00	0.00	C
	ATOM	1438	C	PRO	A	98124.566	-9.615	19.102	1.00	0.00	C
25	ATOM	1439	O	PRO	A	98125.628	-9.439	19.699	1.00	0.00	O
	ATOM	1440	CB	PRO	A	98124.009	-11.613	17.690	1.00	0.00	C
	ATOM	1441	CG	PRO	A	98125.221	-12.475	17.756	1.00	0.00	C
	ATOM	1442	CD	PRO	A	98126.294	-11.743	16.998	1.00	0.00	C
	ATOM	1443	HA	PRO	A	98123.928	-9.560	17.059	1.00	0.00	H

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	ATOM	1444	1HB	PRO A	98123.372	-11.758	18.549	1.00	0.00	H
	ATOM	1445	2HB	PRO A	98123.448	-11.791	16.784	1.00	0.00	H
	ATOM	1446	1HG	PRO A	98125.517	-12.613	18.785	1.00	0.00	H
	ATOM	1447	2HG	PRO A	98125.019	-13.429	17.291	1.00	0.00	H
5	ATOM	1448	1HD	PRO A	98127.259	-11.917	17.448	1.00	0.00	H
	ATOM	1449	2HD	PRO A	98126.297	-12.046	15.962	1.00	0.00	H
	ATOM	1450	N	SER A	99123.382	-9.331	19.634	1.00	0.00	N
	ATOM	1451	CA	SER A	99123.259	-8.784	20.981	1.00	0.00	C
	ATOM	1452	C	SER A	99122.426	-9.703	21.868	1.00	0.00	C
10	ATOM	1453	O	SER A	99121.262	-9.977	21.575	1.00	0.00	O
	ATOM	1454	CB	SER A	99122.626	-7.392	20.932	1.00	0.00	C
	ATOM	1455	OG	SER A	99123.485	-6.463	20.292	1.00	0.00	O
	ATOM	1456	H	SER A	99122.570	-9.493	19.109	1.00	0.00	H
	ATOM	1457	HA	SER A	99124.252	-8.704	21.398	1.00	0.00	H
15	ATOM	1458	1HB	SER A	99121.697	-7.440	20.385	1.00	0.00	H
	ATOM	1459	2HB	SER A	99122.434	-7.051	21.939	1.00	0.00	H
	ATOM	1460	HG	SER A	99123.508	-5.648	20.798	1.00	0.00	H
	ATOM	1461	N	GLY A	100123.030	-10.177	22.953	1.00	0.00	N
	ATOM	1462	CA	GLY A	100122.328	-11.060	23.866	1.00	0.00	C
20	ATOM	1463	C	GLY A	100123.264	-11.750	24.840	1.00	0.00	C
	ATOM	1464	O	GLY A	100124.480	-11.744	24.645	1.00	0.00	O
	ATOM	1465	H	GLY A	100123.958	-9.925	23.135	1.00	0.00	H
	ATOM	1466	1HA	GLY A	100121.606	-10.483	24.424	1.00	0.00	H
	ATOM	1467	2HA	GLY A	100121.806	-11.811	23.292	1.00	0.00	H
25	ATOM	1468	N	PRO A	101122.723	-12.361	25.909	1.00	0.00	N
	ATOM	1469	CA	PRO A	101123.532	-13.058	26.914	1.00	0.00	C
	ATOM	1470	C	PRO A	101124.481	-14.075	26.289	1.00	0.00	C
	ATOM	1471	O	PRO A	101124.058	-15.142	25.844	1.00	0.00	O
	ATOM	1472	CB	PRO A	101122.490	-13.764	27.784	1.00	0.00	C

	ATOM	1473	CG	PRO A	101121.251	-12.951	27.626	1.00	0.00	C
	ATOM	1474	CD	PRO A	101121.283	-12.419	26.220	1.00	0.00	C
	ATOM	1475	HA	PRO A	101124.098	-12.363	27.517	1.00	0.00	H
	ATOM	1476	1HB	PRO A	101122.347	-14.775	27.430	1.00	0.00	H
5	ATOM	1477	2HB	PRO A	101122.824	-13.779	28.810	1.00	0.00	H
	ATOM	1478	1HG	PRO A	101120.382	-13.575	27.772	1.00	0.00	H
	ATOM	1479	2HG	PRO A	101121.254	-12.137	28.336	1.00	0.00	H
	ATOM	1480	1HD	PRO A	101120.770	-13.092	25.550	1.00	0.00	H
	ATOM	1481	2HD	PRO A	101120.841	-11.434	26.180	1.00	0.00	H
10	ATOM	1482	N	SER A	102125.766	-13.737	26.259	1.00	0.00	N
	ATOM	1483	CA	SER A	102126.776	-14.621	25.688	1.00	0.00	C
	ATOM	1484	C	SER A	102128.162	-14.283	26.226	1.00	0.00	C
	ATOM	1485	O	SER A	102128.405	-13.168	26.686	1.00	0.00	O
	ATOM	1486	CB	SER A	102126.769	-14.520	24.162	1.00	0.00	C
15	ATOM	1487	OG	SER A	102127.881	-15.196	23.599	1.00	0.00	O
	ATOM	1488	H	SER A	102126.042	-12.874	26.629	1.00	0.00	H
	ATOM	1489	HA	SER A	102126.528	-15.633	25.973	1.00	0.00	H
	ATOM	1490	1HB	SER A	102125.863	-14.962	23.776	1.00	0.00	H
	ATOM	1491	2HB	SER A	102126.812	-13.480	23.873	1.00	0.00	H
20	ATOM	1492	HG	SER A	102128.175	-14.731	22.813	1.00	0.00	H
	ATOM	1493	N	SER A	103129.067	-15.254	26.164	1.00	0.00	N
	ATOM	1494	CA	SER A	103130.431	-15.060	26.645	1.00	0.00	C
	ATOM	1495	C	SER A	103131.329	-16.216	26.219	1.00	0.00	C
	ATOM	1496	O	SER A	103131.152	-17.349	26.666	1.00	0.00	O
25	ATOM	1497	CB	SER A	103130.442	-14.924	28.169	1.00	0.00	C
	ATOM	1498	OG	SER A	103130.264	-16.183	28.794	1.00	0.00	O
	ATOM	1499	H	SER A	103128.814	-16.122	25.786	1.00	0.00	H
	ATOM	1500	HA	SER A	103130.808	-14.146	26.209	1.00	0.00	H
	ATOM	1501	1HB	SER A	103131.388	-14.510	28.485	1.00	0.00	H



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ATOM  1502 2HB  SER A 103129.641 -14.267 28.476 1.00 0.00 H
ATOM  1503  HG  SER A 103129.437 -16.186 29.280 1.00 0.00 H
ATOM  1504  N   GLY A 104132.292 -15.922 25.352 1.00 0.00 N
ATOM  1505  CA  GLY A 104133.203 -16.947 24.880 1.00 0.00 C
5  ATOM  1506  C   GLY A 104132.655 -17.708 23.689 1.00 0.00 C
   ATOM  1507  O   GLY A 104133.079 -17.416 22.551 1.00 0.00 O
   ATOM  1508  OXT GLY A 104131.800 -18.596 23.893 1.00 0.00 O
   ATOM  1509  H   GLY A 104132.385 -15.001 25.030 1.00 0.00 H
   ATOM  1510 1HA  GLY A 104134.137 -16.483 24.598 1.00 0.00 H
10  ATOM  1511 2HA  GLY A 104133.390 -17.645 25.683 1.00 0.00 H
    TER  1512 GLY A 104
    ENDMDL

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## 立体構造座標表 7

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15  ATOM 1  N   GLY A  1128.015   1.010 -10.316 1.00 0.00 N
    ATOM 2  CA  GLY A  1127.655  -0.374 -10.731 1.00 0.00 C
    ATOM 3  C   GLY A  1128.389  -1.429  -9.927 1.00 0.00 C
    ATOM 4  O   GLY A  1128.645  -2.528 -10.420 1.00 0.00 O
    ATOM 5 1H   GLY A  1129.039   1.078 -10.148 1.00 0.00 H
20  ATOM 6 2H   GLY A  1127.515   1.263  -9.441 1.00 0.00 H
    ATOM 7 3H   GLY A  1127.751   1.686 -11.061 1.00 0.00 H
    ATOM 8 1HA  GLY A  1126.592  -0.512 -10.600 1.00 0.00 H
    ATOM 9 2HA  GLY A  1127.897  -0.499 -11.776 1.00 0.00 H
    ATOM10 N    SER A  2128.728  -1.096  -8.686 1.00 0.00 N
25  ATOM11 CA   SER A  2129.437  -2.024  -7.813 1.00 0.00 C
    ATOM12 C    SER A  2128.513  -2.562  -6.726 1.00 0.00 C
    ATOM13 O     SER A  2128.240  -3.761  -6.667 1.00 0.00 O
    ATOM14 CB    SER A  2130.645  -1.334  -7.176 1.00 0.00 C
    ATOM15 OG    SER A  2131.499  -0.785  -8.163 1.00 0.00 O

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	ATOM16	H	SER A	2128.496	-0.205	-8.351	1.00	0.00	H
	ATOM17	HA	SER A	2129.783	-2.849	-8.417	1.00	0.00	H
	ATOM18	1HB	SER A	2130.304	-0.538	-6.531	1.00	0.00	H
	ATOM19	2HB	SER A	2131.203	-2.054	-6.594	1.00	0.00	H
5	ATOM20	HG	SER A	2132.295	-0.445	-7.746	1.00	0.00	H
	ATOM21	N	SER A	3128.033	-1.668	-5.868	1.00	0.00	N
	ATOM22	CA	SER A	3127.138	-2.053	-4.782	1.00	0.00	C
	ATOM23	C	SER A	3125.816	-1.298	-4.873	1.00	0.00	C
	ATOM24	O	SER A	3125.217	-0.951	-3.856	1.00	0.00	O
10	ATOM25	CB	SER A	3127.799	-1.786	-3.429	1.00	0.00	C
	ATOM26	OG	SER A	3128.587	-0.609	-3.469	1.00	0.00	O
	ATOM27	H	SER A	3128.287	-0.726	-5.966	1.00	0.00	H
	ATOM28	HA	SER A	3126.942	-3.111	-4.873	1.00	0.00	H
	ATOM29	1HB	SER A	3127.036	-1.666	-2.674	1.00	0.00	H
15	ATOM30	2HB	SER A	3128.434	-2.620	-3.170	1.00	0.00	H
	ATOM31	HG	SER A	3128.100	0.088	-3.915	1.00	0.00	H
	ATOM32	N	GLY A	4125.367	-1.048	-6.099	1.00	0.00	N
	ATOM33	CA	GLY A	4124.119	-0.335	-6.299	1.00	0.00	C
	ATOM34	C	GLY A	4124.265	1.160	-6.100	1.00	0.00	C
20	ATOM35	O	GLY A	4125.326	1.638	-5.697	1.00	0.00	O
	ATOM36	H	GLY A	4125.887	-1.348	-6.873	1.00	0.00	H
	ATOM37	1HA	GLY A	4123.769	-0.521	-7.304	1.00	0.00	H
	ATOM38	2HA	GLY A	4123.386	-0.711	-5.600	1.00	0.00	H
	ATOM39	N	SER A	5123.197	1.900	-6.381	1.00	0.00	N
25	ATOM40	CA	SER A	5123.211	3.351	-6.231	1.00	0.00	C
	ATOM41	C	SER A	5122.158	3.804	-5.225	1.00	0.00	C
	ATOM42	O	SER A	5121.565	4.872	-5.369	1.00	0.00	O
	ATOM43	CB	SER A	5122.967	4.027	-7.581	1.00	0.00	C
	ATOM44	OG	SER A	5123.746	5.203	-7.711	1.00	0.00	O

	ATOM45	H	SER A	5122.380	1.460	-6.698	1.00	0.00	H
	ATOM46	HA	SER A	5124.186	3.637	-5.866	1.00	0.00	H
	ATOM47	1HB	SER A	5123.231	3.346	-8.376	1.00	0.00	H
	ATOM48	2HB	SER A	5121.923	4.291	-7.665	1.00	0.00	H
5	ATOM49	HG	SER A	5123.666	5.731	-6.914	1.00	0.00	H
	ATOM50	N	SER A	6121.929	2.982	-4.205	1.00	0.00	N
	ATOM51	CA	SER A	6120.947	3.298	-3.175	1.00	0.00	C
	ATOM52	C	SER A	6121.634	3.702	-1.874	1.00	0.00	C
	ATOM53	O	SER A	6122.774	3.317	-1.617	1.00	0.00	O
10	ATOM54	CB	SER A	6120.031	2.097	-2.929	1.00	0.00	C
	ATOM55	OG	SER A	6119.317	1.751	-4.103	1.00	0.00	O
	ATOM56	H	SER A	6122.434	2.144	-4.144	1.00	0.00	H
	ATOM57	HA	SER A	6120.352	4.127	-3.527	1.00	0.00	H
	ATOM58	1HB	SER A	6120.626	1.249	-2.622	1.00	0.00	H
15	ATOM59	2HB	SER A	6119.324	2.340	-2.149	1.00	0.00	H
	ATOM60	HG	SER A	6118.645	1.100	-3.888	1.00	0.00	H
	ATOM61	N	GLY A	7120.931	4.481	-1.058	1.00	0.00	N
	ATOM62	CA	GLY A	7121.489	4.925	0.206	1.00	0.00	C
	ATOM63	C	GLY A	7122.446	6.089	0.041	1.00	0.00	C
20	ATOM64	O	GLY A	7122.121	7.080	-0.613	1.00	0.00	O
	ATOM65	H	GLY A	7120.027	4.756	-1.316	1.00	0.00	H
	ATOM66	1HA	GLY A	7120.683	5.226	0.857	1.00	0.00	H
	ATOM67	2HA	GLY A	7122.018	4.101	0.663	1.00	0.00	H
	ATOM68	N	LEU A	8123.629	5.969	0.635	1.00	0.00	N
25	ATOM69	CA	LEU A	8124.636	7.021	0.551	1.00	0.00	C
	ATOM70	C	LEU A	8125.948	6.474	-0.004	1.00	0.00	C
	ATOM71	O	LEU A	8126.512	5.522	0.535	1.00	0.00	O
	ATOM72	CB	LEU A	8124.873	7.642	1.930	1.00	0.00	C
	ATOM73	CG	LEU A	8123.800	8.630	2.387	1.00	0.00	C

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	ATOM74	CD1	LEU	A	8123.646	8.590	3.899	1.00	0.00	C	
	ATOM75	CD2	LEU	A	8124.140	10.038	1.920	1.00	0.00	C	
	ATOM76	H	LEU	A	8123.829	5.155	1.143	1.00	0.00	H	
	ATOM77	HA	LEU	A	8124.266	7.782	-0.119	1.00	0.00	H	
5	ATOM78	1HB	LEU	A	8124.930	6.843	2.656	1.00	0.00	H	
	ATOM79	2HB	LEU	A	8125.821	8.158	1.911	1.00	0.00	H	
	ATOM80	HG	LEU	A	8122.852	8.351	1.948	1.00	0.00	H	
	ATOM81	1HD1	LEU	A	8122.870	7.887	4.164	1.00	0.00	H	
	ATOM82	2HD1	LEU	A	8123.380	9.572	4.260	1.00	0.00	H	
10	ATOM83	3HD1	LEU	A	8124.579	8.282	4.347	1.00	0.00	H	
	ATOM84	1HD2	LEU	A	8124.270	10.041	0.848	1.00	0.00	H	
	ATOM85	2HD2	LEU	A	8125.054	10.363	2.396	1.00	0.00	H	
	ATOM86	3HD2	LEU	A	8123.337	10.709	2.187	1.00	0.00	H	
	ATOM87	N	ALA	A	9126.427	7.081	-1.085	1.00	0.00	N	
15	ATOM88	CA	ALA	A	9127.671	6.655	-1.713	1.00	0.00	C	
	ATOM89	C	ALA	A	9128.282	7.780	-2.541	1.00	0.00	C	
	ATOM90	O	ALA	A	9127.588	8.712	-2.947	1.00	0.00	O	
	ATOM91	CB	ALA	A	9127.430	5.429	-2.580	1.00	0.00	C	
	ATOM92	H	ALA	A	9125.931	7.834	-1.468	1.00	0.00	H	
20	ATOM93	HA	ALA	A	9128.363	6.381	-0.929	1.00	0.00	H	
	ATOM94	1HB	ALA	A	9126.713	4.782	-2.099	1.00	0.00	H	
	ATOM95	2HB	ALA	A	9128.360	4.897	-2.717	1.00	0.00	H	
	ATOM96	3HB	ALA	A	9127.047	5.738	-3.542	1.00	0.00	H	
	ATOM97	N	MET	A	10129.585	7.686	-2.786	1.00	0.00	N	
25	ATOM98	CA	MET	A	10130.290	8.696	-3.566	1.00	0.00	C	
	ATOM99	C	MET	A	10131.574	8.124	-4.163	1.00	0.00	C	
	ATOM	100	O	MET	A	10132.645	8.223	-3.564	1.00	0.00	O
	ATOM	101	CB	MET	A	10130.617	9.909	-2.692	1.00	0.00	C
	ATOM	102	CG	MET	A	10129.385	10.644	-2.188	1.00	0.00	C

	ATOM	103	SD	MET A	10129.778	12.268	-1.509	1.00	0.00	S
	ATOM	104	CE	MET A	10128.986	13.337	-2.709	1.00	0.00	C
	ATOM	105	H	MET A	10130.084	6.919	-2.434	1.00	0.00	H
	ATOM	106	HA	MET A	10129.641	9.008	-4.370	1.00	0.00	H
5	ATOM	107	1HB	MET A	10131.188	9.579	-1.838	1.00	0.00	H
	ATOM	108	2HB	MET A	10131.213	10.602	-3.267	1.00	0.00	H
	ATOM	109	1HG	MET A	10128.697	10.771	-3.010	1.00	0.00	H
	ATOM	110	2HG	MET A	10128.919	10.050	-1.416	1.00	0.00	H
	ATOM	111	1HE	MET A	10128.189	13.886	-2.232	1.00	0.00	H
10	ATOM	112	2HE	MET A	10128.582	12.738	-3.512	1.00	0.00	H
	ATOM	113	3HE	MET A	10129.713	14.030	-3.107	1.00	0.00	H
	ATOM	114	N	PRO A	11131.483	7.516	-5.359	1.00	0.00	N
	ATOM	115	CA	PRO A	11132.643	6.928	-6.035	1.00	0.00	C
	ATOM	116	C	PRO A	11133.751	7.950	-6.283	1.00	0.00	C
15	ATOM	117	O	PRO A	11134.920	7.684	-6.004	1.00	0.00	O
	ATOM	118	CB	PRO A	11132.081	6.413	-7.364	1.00	0.00	C
	ATOM	119	CG	PRO A	11130.608	6.310	-7.156	1.00	0.00	C
	ATOM	120	CD	PRO A	11130.246	7.356	-6.140	1.00	0.00	C
	ATOM	121	HA	PRO A	11133.046	6.101	-5.469	1.00	0.00	H
20	ATOM	122	1HB	PRO A	11132.320	7.112	-8.152	1.00	0.00	H
	ATOM	123	2HB	PRO A	11132.514	5.451	-7.589	1.00	0.00	H
	ATOM	124	1HG	PRO A	11130.095	6.502	-8.085	1.00	0.00	H
	ATOM	125	2HG	PRO A	11130.359	5.326	-6.786	1.00	0.00	H
	ATOM	126	1HD	PRO A	11129.976	8.280	-6.630	1.00	0.00	H
25	ATOM	127	2HD	PRO A	11129.437	7.010	-5.514	1.00	0.00	H
	ATOM	128	N	PRO A	12133.404	9.140	-6.810	1.00	0.00	N
	ATOM	129	CA	PRO A	12134.388	10.193	-7.083	1.00	0.00	C
	ATOM	130	C	PRO A	12135.197	10.557	-5.844	1.00	0.00	C
	ATOM	131	O	PRO A	12136.300	11.094	-5.944	1.00	0.00	O

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	ATOM	132	CB	PRO A	12133.533	11.382	-7.530	1.00	0.00	C
	ATOM	133	CG	PRO A	12132.261	10.781	-8.015	1.00	0.00	C
	ATOM	134	CD	PRO A	12132.036	9.557	-7.172	1.00	0.00	C
	ATOM	135	HA	PRO A	12135.060	9.908	-7.880	1.00	0.00	H
5	ATOM	136	1HB	PRO A	12133.364	12.042	-6.691	1.00	0.00	H
	ATOM	137	2HB	PRO A	12134.040	11.918	-8.318	1.00	0.00	H
	ATOM	138	1HG	PRO A	12131.450	11.481	-7.884	1.00	0.00	H
	ATOM	139	2HG	PRO A	12132.357	10.506	-9.055	1.00	0.00	H
	ATOM	140	1HD	PRO A	12131.462	9.806	-6.292	1.00	0.00	H
10	ATOM	141	2HD	PRO A	12131.537	8.792	-7.746	1.00	0.00	H
	ATOM	142	N	GLY A	13134.641	10.259	-4.673	1.00	0.00	N
	ATOM	143	CA	GLY A	13135.325	10.562	-3.429	1.00	0.00	C
	ATOM	144	C	GLY A	13136.013	9.350	-2.835	1.00	0.00	C
	ATOM	145	O	GLY A	13135.664	8.902	-1.743	1.00	0.00	O
15	ATOM	146	H	GLY A	13133.758	9.830	-4.653	1.00	0.00	H
	ATOM	147	1HA	GLY A	13136.063	11.328	-3.615	1.00	0.00	H
	ATOM	148	2HA	GLY A	13134.604	10.938	-2.717	1.00	0.00	H
	ATOM	149	N	ASN A	14136.995	8.818	-3.554	1.00	0.00	N
	ATOM	150	CA	ASN A	14137.736	7.650	-3.092	1.00	0.00	C
20	ATOM	151	C	ASN A	14136.803	6.459	-2.890	1.00	0.00	C
	ATOM	152	O	ASN A	14136.816	5.818	-1.839	1.00	0.00	O
	ATOM	153	CB	ASN A	14138.469	7.970	-1.786	1.00	0.00	C
	ATOM	154	CG	ASN A	14139.436	9.126	-1.935	1.00	0.00	C
	ATOM	155	OD1	ASN A	14140.104	9.265	-2.961	1.00	0.00	O
25	ATOM	156	ND2	ASN A	14139.519	9.965	-0.909	1.00	0.00	N
	ATOM	157	H	ASN A	14137.228	9.220	-4.417	1.00	0.00	H
	ATOM	158	HA	ASN A	14138.463	7.398	-3.848	1.00	0.00	H
	ATOM	159	1HB	ASN A	14137.743	8.227	-1.028	1.00	0.00	H
	ATOM	160	2HB	ASN A	14139.022	7.098	-1.468	1.00	0.00	H

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	ATOM	161	1HD2	ASN	A	14138.958	9.793	-0.124	1.00	0.00	H
	ATOM	162	2HD2	ASN	A	14140.137	10.722	-0.978	1.00	0.00	H
	ATOM	163	N	SER	A	15135.996	6.168	-3.905	1.00	0.00	N
	ATOM	164	CA	SER	A	15135.055	5.054	-3.844	1.00	0.00	C
5	ATOM	165	C	SER	A	15134.001	5.290	-2.766	1.00	0.00	C
	ATOM	166	O	SER	A	15132.873	5.682	-3.063	1.00	0.00	O
	ATOM	167	CB	SER	A	15135.798	3.742	-3.575	1.00	0.00	C
	ATOM	168	OG	SER	A	15136.062	3.049	-4.783	1.00	0.00	O
	ATOM	169	H	SER	A	15136.034	6.716	-4.718	1.00	0.00	H
10	ATOM	170	HA	SER	A	15134.562	4.986	-4.802	1.00	0.00	H
	ATOM	171	1HB	SER	A	15136.736	3.957	-3.085	1.00	0.00	H
	ATOM	172	2HB	SER	A	15135.194	3.114	-2.938	1.00	0.00	H
	ATOM	173	HG	SER	A	15136.234	2.124	-4.589	1.00	0.00	H
	ATOM	174	N	HIS	A	16134.376	5.049	-1.514	1.00	0.00	N
15	ATOM	175	CA	HIS	A	16133.462	5.237	-0.393	1.00	0.00	C
	ATOM	176	C	HIS	A	16134.143	5.997	0.742	1.00	0.00	C
	ATOM	177	O	HIS	A	16133.685	7.064	1.150	1.00	0.00	O
	ATOM	178	CB	HIS	A	16132.957	3.883	0.113	1.00	0.00	C
	ATOM	179	CG	HIS	A	16131.570	3.555	-0.342	1.00	0.00	C
20	ATOM	180	ND1	HIS	A	16130.456	3.728	0.453	1.00	0.00	N
	ATOM	181	CD2	HIS	A	16131.115	3.061	-1.519	1.00	0.00	C
	ATOM	182	CE1	HIS	A	16129.377	3.355	-0.214	1.00	0.00	C
	ATOM	183	NE2	HIS	A	16129.751	2.947	-1.413	1.00	0.00	N
	ATOM	184	H	HIS	A	16135.289	4.740	-1.339	1.00	0.00	H
25	ATOM	185	HA	HIS	A	16132.622	5.817	-0.744	1.00	0.00	H
	ATOM	186	1HB	HIS	A	16133.616	3.105	-0.245	1.00	0.00	H
	ATOM	187	2HB	HIS	A	16132.962	3.883	1.193	1.00	0.00	H
	ATOM	188	HD1	HIS	A	16130.456	4.074	1.370	1.00	0.00	H
	ATOM	189	HD2	HIS	A	16131.715	2.805	-2.381	1.00	0.00	H

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	ATOM	190	HE1	HIS	A	16128.364	3.381	0.158	1.00	0.00	H
	ATOM	191	HE2	HIS	A	16129.161	2.533	-2.078	1.00	0.00	H
	ATOM	192	N	GLY	A	17135.238	5.440	1.246	1.00	0.00	N
	ATOM	193	CA	GLY	A	17135.964	6.079	2.329	1.00	0.00	C
5	ATOM	194	C	GLY	A	17137.320	5.446	2.570	1.00	0.00	C
	ATOM	195	O	GLY	A	17137.588	4.929	3.654	1.00	0.00	O
	ATOM	196	H	GLY	A	17135.557	4.588	0.881	1.00	0.00	H
	ATOM	197	1HA	GLY	A	17136.104	7.122	2.087	1.00	0.00	H
	ATOM	198	2HA	GLY	A	17135.378	6.004	3.233	1.00	0.00	H
10	ATOM	199	N	LEU	A	18138.179	5.487	1.556	1.00	0.00	N
	ATOM	200	CA	LEU	A	18139.516	4.914	1.663	1.00	0.00	C
	ATOM	201	C	LEU	A	18140.514	5.950	2.171	1.00	0.00	C
	ATOM	202	O	LEU	A	18140.889	6.873	1.448	1.00	0.00	O
	ATOM	203	CB	LEU	A	18139.972	4.374	0.306	1.00	0.00	C
15	ATOM	204	CG	LEU	A	18138.938	3.521	-0.431	1.00	0.00	C
	ATOM	205	CD1	LEU	A	18139.197	3.545	-1.929	1.00	0.00	C
	ATOM	206	CD2	LEU	A	18138.957	2.092	0.092	1.00	0.00	C
	ATOM	207	H	LEU	A	18137.907	5.914	0.717	1.00	0.00	H
	ATOM	208	HA	LEU	A	18139.471	4.098	2.369	1.00	0.00	H
20	ATOM	209	1HB	LEU	A	18140.231	5.213	-0.323	1.00	0.00	H
	ATOM	210	2HB	LEU	A	18140.856	3.774	0.460	1.00	0.00	H
	ATOM	211	HG	LEU	A	18137.954	3.929	-0.256	1.00	0.00	H
	ATOM	212	1HD1	LEU	A	18138.664	2.732	-2.399	1.00	0.00	H
	ATOM	213	2HD1	LEU	A	18140.255	3.436	-2.114	1.00	0.00	H
25	ATOM	214	3HD1	LEU	A	18138.855	4.484	-2.338	1.00	0.00	H
	ATOM	215	1HD2	LEU	A	18139.980	1.770	0.220	1.00	0.00	H
	ATOM	216	2HD2	LEU	A	18138.461	1.443	-0.615	1.00	0.00	H
	ATOM	217	3HD2	LEU	A	18138.445	2.050	1.041	1.00	0.00	H
	ATOM	218	N	GLU	A	19140.937	5.792	3.420	1.00	0.00	N



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	ATOM	219	CA	GLU A	19141.892	6.714	4.026	1.00	0.00	C
	ATOM	220	C	GLU A	19142.828	5.978	4.980	1.00	0.00	C
	ATOM	221	O	GLU A	19142.700	4.771	5.184	1.00	0.00	O
	ATOM	222	CB	GLU A	19141.153	7.825	4.774	1.00	0.00	C
5	ATOM	223	CG	GLU A	19140.096	7.312	5.737	1.00	0.00	C
	ATOM	224	CD	GLU A	19140.078	8.078	7.045	1.00	0.00	C
	ATOM	225	OE1	GLU A	19139.086	8.792	7.302	1.00	0.00	O
	ATOM	226	OE2	GLU A	19141.056	7.963	7.814	1.00	0.00	O
	ATOM	227	H	GLU A	19140.601	5.037	3.947	1.00	0.00	H
10	ATOM	228	HA	GLU A	19142.478	7.153	3.233	1.00	0.00	H
	ATOM	229	1HB	GLU A	19141.872	8.403	5.336	1.00	0.00	H
	ATOM	230	2HB	GLU A	19140.672	8.469	4.053	1.00	0.00	H
	ATOM	231	1HG	GLU A	19139.127	7.406	5.270	1.00	0.00	H
	ATOM	232	2HG	GLU A	19140.294	6.271	5.948	1.00	0.00	H
15	ATOM	233	N	VAL A	20143.770	6.715	5.562	1.00	0.00	N
	ATOM	234	CA	VAL A	20144.726	6.133	6.495	1.00	0.00	C
	ATOM	235	C	VAL A	20144.014	5.482	7.678	1.00	0.00	C
	ATOM	236	O	VAL A	20143.052	6.032	8.215	1.00	0.00	O
	ATOM	237	CB	VAL A	20145.712	7.194	7.023	1.00	0.00	C
20	ATOM	238	CG1	VAL A	20146.786	6.547	7.885	1.00	0.00	C
	ATOM	239	CG2	VAL A	20146.337	7.962	5.868	1.00	0.00	C
	ATOM	240	H	VAL A	20143.820	7.673	5.360	1.00	0.00	H
	ATOM	241	HA	VAL A	20145.291	5.378	5.968	1.00	0.00	H
	ATOM	242	HB	VAL A	20145.162	7.893	7.636	1.00	0.00	H
25	ATOM	243	1HG1	VAL A	20146.375	6.316	8.857	1.00	0.00	H
	ATOM	244	2HG1	VAL A	20147.615	7.229	7.999	1.00	0.00	H
	ATOM	245	3HG1	VAL A	20147.129	5.638	7.413	1.00	0.00	H
	ATOM	246	1HG2	VAL A	20147.314	8.318	6.159	1.00	0.00	H
	ATOM	247	2HG2	VAL A	20145.708	8.802	5.613	1.00	0.00	H

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	ATOM	248	3HG2	VAL	A	20146.431	7.310	5.012	1.00	0.00	H
	ATOM	249	N	GLY	A	21144.493	4.309	8.077	1.00	0.00	N
	ATOM	250	CA	GLY	A	21143.890	3.603	9.192	1.00	0.00	C
	ATOM	251	C	GLY	A	21142.852	2.592	8.746	1.00	0.00	C
5	ATOM	252	O	GLY	A	21142.800	1.477	9.261	1.00	0.00	O
	ATOM	253	H	GLY	A	21145.263	3.919	7.611	1.00	0.00	H
	ATOM	254	1HA	GLY	A	21144.666	3.088	9.740	1.00	0.00	H
	ATOM	255	2HA	GLY	A	21143.419	4.321	9.846	1.00	0.00	H
	ATOM	256	N	SER	A	22142.024	2.985	7.783	1.00	0.00	N
10	ATOM	257	CA	SER	A	22140.981	2.106	7.266	1.00	0.00	C
	ATOM	258	C	SER	A	22141.573	1.041	6.348	1.00	0.00	C
	ATOM	259	O	SER	A	22142.497	1.314	5.581	1.00	0.00	O
	ATOM	260	CB	SER	A	22139.928	2.918	6.510	1.00	0.00	C
	ATOM	261	OG	SER	A	22139.576	4.090	7.227	1.00	0.00	O
15	ATOM	262	H	SER	A	22142.115	3.887	7.412	1.00	0.00	H
	ATOM	263	HA	SER	A	22140.512	1.619	8.107	1.00	0.00	H
	ATOM	264	1HB	SER	A	22140.321	3.206	5.547	1.00	0.00	H
	ATOM	265	2HB	SER	A	22139.042	2.316	6.372	1.00	0.00	H
	ATOM	266	HG	SER	A	22140.307	4.712	7.202	1.00	0.00	H
20	ATOM	267	N	LEU	A	23141.037	-0.171	6.433	1.00	0.00	N
	ATOM	268	CA	LEU	A	23141.513	-1.277	5.610	1.00	0.00	C
	ATOM	269	C	LEU	A	23141.115	-1.081	4.150	1.00	0.00	C
	ATOM	270	O	LEU	A	23140.071	-0.500	3.854	1.00	0.00	O
	ATOM	271	CB	LEU	A	23140.956	-2.603	6.129	1.00	0.00	C
25	ATOM	272	CG	LEU	A	23141.330	-2.942	7.574	1.00	0.00	C
	ATOM	273	CD1	LEU	A	23140.251	-3.798	8.217	1.00	0.00	C
	ATOM	274	CD2	LEU	A	23142.675	-3.649	7.623	1.00	0.00	C
	ATOM	275	H	LEU	A	23140.303	-0.327	7.064	1.00	0.00	H
	ATOM	276	HA	LEU	A	23142.590	-1.299	5.677	1.00	0.00	H

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	ATOM	277	1HB	LEU	A	23139.878	-2.570	6.056	1.00	0.00	H
	ATOM	278	2HB	LEU	A	23141.319	-3.396	5.492	1.00	0.00	H
	ATOM	279	HG	LEU	A	23141.411	-2.026	8.140	1.00	0.00	H
	ATOM	280	1HD1	LEU	A	23140.197	-3.576	9.273	1.00	0.00	H
5	ATOM	281	2HD1	LEU	A	23140.490	-4.843	8.080	1.00	0.00	H
	ATOM	282	3HD1	LEU	A	23139.298	-3.584	7.756	1.00	0.00	H
	ATOM	283	1HD2	LEU	A	23143.218	-3.332	8.501	1.00	0.00	H
	ATOM	284	2HD2	LEU	A	23143.245	-3.402	6.739	1.00	0.00	H
	ATOM	285	3HD2	LEU	A	23142.519	-4.718	7.662	1.00	0.00	H
10	ATOM	286	N	ALA	A	24141.955	-1.570	3.243	1.00	0.00	N
	ATOM	287	CA	ALA	A	24141.691	-1.451	1.815	1.00	0.00	C
	ATOM	288	C	ALA	A	24142.305	-2.615	1.045	1.00	0.00	C
	ATOM	289	O	ALA	A	24143.292	-3.209	1.480	1.00	0.00	O
	ATOM	290	CB	ALA	A	24142.226	-0.127	1.289	1.00	0.00	C
15	ATOM	291	H	ALA	A	24142.771	-2.023	3.542	1.00	0.00	H
	ATOM	292	HA	ALA	A	24140.621	-1.462	1.671	1.00	0.00	H
	ATOM	293	1HB	ALA	A	24142.507	-0.239	0.251	1.00	0.00	H
	ATOM	294	2HB	ALA	A	24143.091	0.166	1.866	1.00	0.00	H
	ATOM	295	3HB	ALA	A	24141.461	0.630	1.375	1.00	0.00	H
20	ATOM	296	N	GLU	A	25141.715	-2.937	-0.102	1.00	0.00	N
	ATOM	297	CA	GLU	A	25142.205	-4.032	-0.932	1.00	0.00	C
	ATOM	298	C	GLU	A	25142.605	-3.530	-2.316	1.00	0.00	C
	ATOM	299	O	GLU	A	25142.089	-2.519	-2.793	1.00	0.00	O
	ATOM	300	CB	GLU	A	25141.136	-5.119	-1.062	1.00	0.00	C
25	ATOM	301	CG	GLU	A	25141.708	-6.516	-1.245	1.00	0.00	C
	ATOM	302	CD	GLU	A	25140.729	-7.464	-1.909	1.00	0.00	C
	ATOM	303	OE1	GLU	A	25139.929	-6.999	-2.749	1.00	0.00	O
	ATOM	304	OE2	GLU	A	25140.762	-8.671	-1.590	1.00	0.00	O
	ATOM	305	H	GLU	A	25140.932	-2.428	-0.396	1.00	0.00	H

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	ATOM	306	HA	GLU A	25143.075	-4.452	-0.449	1.00	0.00	H
	ATOM	307	1HB	GLU A	25140.527	-5.117	-0.170	1.00	0.00	H
	ATOM	308	2HB	GLU A	25140.512	-4.894	-1.915	1.00	0.00	H
	ATOM	309	1HG	GLU A	25142.594	-6.451	-1.858	1.00	0.00	H
5	ATOM	310	2HG	GLU A	25141.970	-6.913	-0.275	1.00	0.00	H
	ATOM	311	N	VAL A	26143.528	-4.243	-2.954	1.00	0.00	N
	ATOM	312	CA	VAL A	26143.998	-3.869	-4.282	1.00	0.00	C
	ATOM	313	C	VAL A	26143.826	-5.020	-5.268	1.00	0.00	C
	ATOM	314	O	VAL A	26144.136	-6.170	-4.955	1.00	0.00	O
10	ATOM	315	CB	VAL A	26145.480	-3.446	-4.258	1.00	0.00	C
	ATOM	316	CG1	VAL A	26145.909	-2.913	-5.616	1.00	0.00	C
	ATOM	317	CG2	VAL A	26145.722	-2.410	-3.170	1.00	0.00	C
	ATOM	318	H	VAL A	26143.901	-5.039	-2.521	1.00	0.00	H
	ATOM	319	HA	VAL A	26143.411	-3.027	-4.621	1.00	0.00	H
15	ATOM	320	HB	VAL A	26146.078	-4.318	-4.033	1.00	0.00	H
	ATOM	321	1HG1	VAL A	26145.900	-1.833	-5.598	1.00	0.00	H
	ATOM	322	2HG1	VAL A	26145.225	-3.266	-6.374	1.00	0.00	H
	ATOM	323	3HG1	VAL A	26146.905	-3.261	-5.841	1.00	0.00	H
	ATOM	324	1HG2	VAL A	26146.651	-2.631	-2.663	1.00	0.00	H
20	ATOM	325	2HG2	VAL A	26144.909	-2.434	-2.460	1.00	0.00	H
	ATOM	326	3HG2	VAL A	26145.781	-1.428	-3.616	1.00	0.00	H
	ATOM	327	N	LYS A	27143.330	-4.704	-6.460	1.00	0.00	N
	ATOM	328	CA	LYS A	27143.116	-5.712	-7.491	1.00	0.00	C
	ATOM	329	C	LYS A	27144.437	-6.118	-8.137	1.00	0.00	C
25	ATOM	330	O	LYS A	27144.790	-5.631	-9.211	1.00	0.00	O
	ATOM	331	CB	LYS A	27142.155	-5.184	-8.558	1.00	0.00	C
	ATOM	332	CG	LYS A	27140.694	-5.475	-8.257	1.00	0.00	C
	ATOM	333	CD	LYS A	27139.793	-4.342	-8.722	1.00	0.00	C
	ATOM	334	CE	LYS A	27138.436	-4.857	-9.172	1.00	0.00	C

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	ATOM	335	NZ	LYS	A	27137.427	-4.798	-8.079	1.00	0.00	N
	ATOM	336	H	LYS	A	27143.102	-3.769	-6.649	1.00	0.00	H
	ATOM	337	HA	LYS	A	27142.677	-6.579	-7.021	1.00	0.00	H
	ATOM	338	1HB	LYS	A	27142.277	-4.114	-8.639	1.00	0.00	H
5	ATOM	339	2HB	LYS	A	27142.403	-5.638	-9.506	1.00	0.00	H
	ATOM	340	1HG	LYS	A	27140.405	-6.382	-8.767	1.00	0.00	H
	ATOM	341	2HG	LYS	A	27140.574	-5.604	-7.192	1.00	0.00	H
	ATOM	342	1HD	LYS	A	27139.650	-3.651	-7.905	1.00	0.00	H
	ATOM	343	2HD	LYS	A	27140.268	-3.833	-9.549	1.00	0.00	H
10	ATOM	344	1HE	LYS	A	27138.092	-4.255	-10.000	1.00	0.00	H
	ATOM	345	2HE	LYS	A	27138.544	-5.883	-9.497	1.00	0.00	H
	ATOM	346	1HZ	LYS	A	27136.494	-4.552	-8.466	1.00	0.00	H
	ATOM	347	2HZ	LYS	A	27137.700	-4.079	-7.379	1.00	0.00	H
	ATOM	348	3HZ	LYS	A	27137.361	-5.721	-7.603	1.00	0.00	H
15	ATOM	349	N	GLU	A	28145.162	-7.014	-7.475	1.00	0.00	N
	ATOM	350	CA	GLU	A	28146.444	-7.487	-7.986	1.00	0.00	C
	ATOM	351	C	GLU	A	28146.465	-9.010	-8.076	1.00	0.00	C
	ATOM	352	O	GLU	A	28145.504	-9.678	-7.694	1.00	0.00	O
	ATOM	353	CB	GLU	A	28147.585	-6.998	-7.090	1.00	0.00	C
20	ATOM	354	CG	GLU	A	28148.729	-6.358	-7.858	1.00	0.00	C
	ATOM	355	CD	GLU	A	28149.850	-5.889	-6.951	1.00	0.00	C
	ATOM	356	OE1	GLU	A	28150.027	-4.661	-6.811	1.00	0.00	O
	ATOM	357	OE2	GLU	A	28150.550	-6.751	-6.378	1.00	0.00	O
	ATOM	358	H	GLU	A	28144.828	-7.367	-6.625	1.00	0.00	H
25	ATOM	359	HA	GLU	A	28146.577	-7.079	-8.976	1.00	0.00	H
	ATOM	360	1HB	GLU	A	28147.195	-6.271	-6.394	1.00	0.00	H
	ATOM	361	2HB	GLU	A	28147.979	-7.838	-6.535	1.00	0.00	H
	ATOM	362	1HG	GLU	A	28149.129	-7.080	-8.553	1.00	0.00	H
	ATOM	363	2HG	GLU	A	28148.348	-5.507	-8.404	1.00	0.00	H

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	ATOM	364	N	ASN	A	29147.568	-9.551	-8.582	1.00	0.00	N
	ATOM	365	CA	ASN	A	29147.716	-10.996	-8.721	1.00	0.00	C
	ATOM	366	C	ASN	A	29147.613	-11.688	-7.363	1.00	0.00	C
	ATOM	367	O	ASN	A	29146.752	-12.543	-7.158	1.00	0.00	O
5	ATOM	368	CB	ASN	A	29149.055	-11.331	-9.380	1.00	0.00	C
	ATOM	369	CG	ASN	A	29148.926	-11.543	-10.876	1.00	0.00	C
	ATOM	370	OD1	ASN	A	29149.065	-12.662	-11.371	1.00	0.00	O
	ATOM	371	ND2	ASN	A	29148.660	-10.465	-11.605	1.00	0.00	N
	ATOM	372	H	ASN	A	29148.301	-8.967	-8.868	1.00	0.00	H
10	ATOM	373	HA	ASN	A	29146.915	-11.351	-9.353	1.00	0.00	H
	ATOM	374	1HB	ASN	A	29149.747	-10.520	-9.210	1.00	0.00	H
	ATOM	375	2HB	ASN	A	29149.451	-12.235	-8.939	1.00	0.00	H
	ATOM	376	1HD2	ASN	A	29148.563	-9.606	-11.144	1.00	0.00	H
	ATOM	377	2HD2	ASN	A	29148.571	-10.574	-12.575	1.00	0.00	H
15	ATOM	378	N	PRO	A	30148.497	-11.327	-6.416	1.00	0.00	N
	ATOM	379	CA	PRO	A	30148.502	-11.917	-5.076	1.00	0.00	C
	ATOM	380	C	PRO	A	30147.380	-11.368	-4.195	1.00	0.00	C
	ATOM	381	O	PRO	A	30147.416	-10.208	-3.786	1.00	0.00	O
	ATOM	382	CB	PRO	A	30149.865	-11.505	-4.521	1.00	0.00	C
20	ATOM	383	CG	PRO	A	30150.175	-10.219	-5.206	1.00	0.00	C
	ATOM	384	CD	PRO	A	30149.559	-10.314	-6.578	1.00	0.00	C
	ATOM	385	HA	PRO	A	30148.437	-12.993	-5.117	1.00	0.00	H
	ATOM	386	1HB	PRO	A	30149.797	-11.378	-3.450	1.00	0.00	H
	ATOM	387	2HB	PRO	A	30150.597	-12.263	-4.755	1.00	0.00	H
25	ATOM	388	1HG	PRO	A	30149.739	-9.397	-4.657	1.00	0.00	H
	ATOM	389	2HG	PRO	A	30151.244	-10.094	-5.285	1.00	0.00	H
	ATOM	390	1HD	PRO	A	30149.142	-9.362	-6.870	1.00	0.00	H
	ATOM	391	2HD	PRO	A	30150.294	-10.640	-7.298	1.00	0.00	H
	ATOM	392	N	PRO	A	31146.363	-12.196	-3.889	1.00	0.00	N

	ATOM	393	CA	PRO A	31145.234	-11.777	-3.052	1.00	0.00	C
	ATOM	394	C	PRO A	31145.642	-11.550	-1.601	1.00	0.00	C
	ATOM	395	O	PRO A	31145.519	-12.444	-0.764	1.00	0.00	O
	ATOM	396	CB	PRO A	31144.257	-12.951	-3.155	1.00	0.00	C
5	ATOM	397	CG	PRO A	31145.111	-14.127	-3.484	1.00	0.00	C
	ATOM	398	CD	PRO A	31146.234	-13.598	-4.331	1.00	0.00	C
	ATOM	399	HA	PRO A	31144.767	-10.882	-3.438	1.00	0.00	H
	ATOM	400	1HB	PRO A	31143.748	-13.083	-2.212	1.00	0.00	H
	ATOM	401	2HB	PRO A	31143.537	-12.757	-3.936	1.00	0.00	H
10	ATOM	402	1HG	PRO A	31145.499	-14.563	-2.575	1.00	0.00	H
	ATOM	403	2HG	PRO A	31144.536	-14.855	-4.037	1.00	0.00	H
	ATOM	404	1HD	PRO A	31147.143	-14.148	-4.138	1.00	0.00	H
	ATOM	405	2HD	PRO A	31145.974	-13.649	-5.378	1.00	0.00	H
	ATOM	406	N	PHE A	32146.130	-10.348	-1.310	1.00	0.00	N
15	ATOM	407	CA	PHE A	32146.557	-10.002	0.040	1.00	0.00	C
	ATOM	408	C	PHE A	32145.562	-9.052	0.699	1.00	0.00	C
	ATOM	409	O	PHE A	32144.630	-8.569	0.056	1.00	0.00	O
	ATOM	410	CB	PHE A	32147.947	-9.364	0.009	1.00	0.00	C
	ATOM	411	CG	PHE A	32148.016	-8.116	-0.824	1.00	0.00	C
20	ATOM	412	CD1	PHE A	32148.649	-8.124	-2.056	1.00	0.00	C
	ATOM	413	CD2	PHE A	32147.447	-6.935	-0.374	1.00	0.00	C
	ATOM	414	CE1	PHE A	32148.713	-6.978	-2.825	1.00	0.00	C
	ATOM	415	CE2	PHE A	32147.508	-5.785	-1.139	1.00	0.00	C
	ATOM	416	CZ	PHE A	32148.143	-5.807	-2.366	1.00	0.00	C
25	ATOM	417	H	PHE A	32146.203	-9.678	-2.022	1.00	0.00	H
	ATOM	418	HA	PHE A	32146.602	-10.913	0.617	1.00	0.00	H
	ATOM	419	1HB	PHE A	32148.240	-9.107	1.017	1.00	0.00	H
	ATOM	420	2HB	PHE A	32148.652	-10.075	-0.395	1.00	0.00	H
	ATOM	421	HD1	PHE A	32149.095	-9.039	-2.416	1.00	0.00	H

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	ATOM	422	HD2	PHE	A	32146.950	-6.918	0.584	1.00	0.00	H
	ATOM	423	HE1	PHE	A	32149.211	-6.997	-3.784	1.00	0.00	H
	ATOM	424	HE2	PHE	A	32147.060	-4.872	-0.778	1.00	0.00	H
	ATOM	425	HZ	PHE	A	32148.192	-4.910	-2.965	1.00	0.00	H
5	ATOM	426	N	TYR	A	33145.770	-8.785	1.984	1.00	0.00	N
	ATOM	427	CA	TYR	A	33144.892	-7.892	2.731	1.00	0.00	C
	ATOM	428	C	TYR	A	33145.696	-7.001	3.673	1.00	0.00	C
	ATOM	429	O	TYR	A	33146.335	-7.487	4.607	1.00	0.00	O
	ATOM	430	CB	TYR	A	33143.865	-8.699	3.527	1.00	0.00	C
10	ATOM	431	CG	TYR	A	33142.662	-9.121	2.712	1.00	0.00	C
	ATOM	432	CD1	TYR	A	33141.948	-8.193	1.962	1.00	0.00	C
	ATOM	433	CD2	TYR	A	33142.243	-10.444	2.691	1.00	0.00	C
	ATOM	434	CE1	TYR	A	33140.848	-8.576	1.217	1.00	0.00	C
	ATOM	435	CE2	TYR	A	33141.145	-10.833	1.947	1.00	0.00	C
15	ATOM	436	CZ	TYR	A	33140.452	-9.896	1.212	1.00	0.00	C
	ATOM	437	OH	TYR	A	33139.358	-10.279	0.469	1.00	0.00	O
	ATOM	438	H	TYR	A	33146.531	-9.200	2.442	1.00	0.00	H
	ATOM	439	HA	TYR	A	33144.373	-7.267	2.020	1.00	0.00	H
	ATOM	440	1HB	TYR	A	33144.335	-9.592	3.908	1.00	0.00	H
20	ATOM	441	2HB	TYR	A	33143.512	-8.102	4.355	1.00	0.00	H
	ATOM	442	HD1	TYR	A	33142.261	-7.160	1.968	1.00	0.00	H
	ATOM	443	HD2	TYR	A	33142.788	-11.177	3.268	1.00	0.00	H
	ATOM	444	HE1	TYR	A	33140.306	-7.840	0.641	1.00	0.00	H
	ATOM	445	HE2	TYR	A	33140.835	-11.869	1.943	1.00	0.00	H
25	ATOM	446	HH	TYR	A	33139.593	-11.028	-0.083	1.00	0.00	H
	ATOM	447	N	GLY	A	34145.660	-5.697	3.422	1.00	0.00	N
	ATOM	448	CA	GLY	A	34146.389	-4.761	4.257	1.00	0.00	C
	ATOM	449	C	GLY	A	34145.568	-3.537	4.613	1.00	0.00	C
	ATOM	450	O	GLY	A	34144.380	-3.465	4.294	1.00	0.00	O



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	ATOM	451	H	GLY A	34145.133	-5.368	2.664	1.00	0.00	H
	ATOM	452	1HA	GLY A	34146.683	-5.260	5.168	1.00	0.00	H
	ATOM	453	2HA	GLY A	34147.278	-4.443	3.731	1.00	0.00	H
	ATOM	454	N	VAL A	35146.200	-2.573	5.275	1.00	0.00	N
5.	ATOM	455	CA	VAL A	35145.520	-1.348	5.674	1.00	0.00	C
	ATOM	456	C	VAL A	35146.266	-0.117	5.168	1.00	0.00	C
	ATOM	457	O	VAL A	35147.494	-0.110	5.093	1.00	0.00	O
	ATOM	458	CB	VAL A	35145.376	-1.261	7.207	1.00	0.00	C
	ATOM	459	CG1	VAL A	35146.742	-1.264	7.877	1.00	0.00	C
10	ATOM	460	CG2	VAL A	35144.581	-0.024	7.601	1.00	0.00	C
	ATOM	461	H	VAL A	35147.147	-2.690	5.499	1.00	0.00	H
	ATOM	462	HA	VAL A	35144.531	-1.360	5.241	1.00	0.00	H
	ATOM	463	HB	VAL A	35144.834	-2.131	7.546	1.00	0.00	H
	ATOM	464	1HG1	VAL A	35146.735	-0.577	8.711	1.00	0.00	H
15	ATOM	465	2HG1	VAL A	35147.493	-0.959	7.165	1.00	0.00	H
	ATOM	466	3HG1	VAL A	35146.965	-2.258	8.232	1.00	0.00	H
	ATOM	467	1HG2	VAL A	35144.998	0.843	7.113	1.00	0.00	H
	ATOM	468	2HG2	VAL A	35144.629	0.108	8.672	1.00	0.00	H
	ATOM	469	3HG2	VAL A	35143.551	-0.146	7.300	1.00	0.00	H
20	ATOM	470	N	ILE A	36145.515	0.923	4.822	1.00	0.00	N
	ATOM	471	CA	ILE A	36146.105	2.160	4.324	1.00	0.00	C
	ATOM	472	C	ILE A	36147.035	2.779	5.362	1.00	0.00	C
	ATOM	473	O	ILE A	36146.862	2.574	6.564	1.00	0.00	O
	ATOM	474	CB	ILE A	36145.023	3.188	3.939	1.00	0.00	C
25	ATOM	475	CG1	ILE A	36144.010	2.562	2.977	1.00	0.00	C
	ATOM	476	CG2	ILE A	36145.660	4.422	3.315	1.00	0.00	C
	ATOM	477	CD1	ILE A	36142.915	3.515	2.548	1.00	0.00	C
	ATOM	478	H	ILE A	36144.540	0.859	4.905	1.00	0.00	H
	ATOM	479	HA	ILE A	36146.678	1.923	3.439	1.00	0.00	H

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	ATOM	480	HB	ILE	A	36144.512	3.494	4.840	1.00	0.00	H
	ATOM	481	1HG1	ILE	A	36144.525	2.229	2.089	1.00	0.00	H
	ATOM	482	2HG1	ILE	A	36143.544	1.715	3.457	1.00	0.00	H
	ATOM	483	1HG2	ILE	A	36146.128	5.015	4.087	1.00	0.00	H
5	ATOM	484	2HG2	ILE	A	36144.900	5.009	2.822	1.00	0.00	H
	ATOM	485	3HG2	ILE	A	36146.404	4.117	2.593	1.00	0.00	H
	ATOM	486	1HD1	ILE	A	36142.149	3.548	3.308	1.00	0.00	H
	ATOM	487	2HD1	ILE	A	36142.486	3.173	1.617	1.00	0.00	H
	ATOM	488	3HD1	ILE	A	36143.330	4.502	2.412	1.00	0.00	H
10	ATOM	489	N	ARG	A	37148.020	3.537	4.891	1.00	0.00	N
	ATOM	490	CA	ARG	A	37148.977	4.184	5.780	1.00	0.00	C
	ATOM	491	C	ARG	A	37149.216	5.631	5.364	1.00	0.00	C
	ATOM	492	O	ARG	A	37148.844	6.563	6.078	1.00	0.00	O
	ATOM	493	CB	ARG	A	37150.300	3.418	5.782	1.00	0.00	C
15	ATOM	494	CG	ARG	A	37150.144	1.935	6.077	1.00	0.00	C
	ATOM	495	CD	ARG	A	37150.115	1.667	7.572	1.00	0.00	C
	ATOM	496	NE	ARG	A	37148.908	2.196	8.201	1.00	0.00	N
	ATOM	497	CZ	ARG	A	37148.788	2.420	9.508	1.00	0.00	C
	ATOM	498	NH1	ARG	A	37149.800	2.159	10.327	1.00	0.00	N
20	ATOM	499	NH2	ARG	A	37147.654	2.904	9.997	1.00	0.00	N
	ATOM	500	H	ARG	A	37148.105	3.662	3.924	1.00	0.00	H
	ATOM	501	HA	ARG	A	37148.563	4.173	6.778	1.00	0.00	H
	ATOM	502	1HB	ARG	A	37150.766	3.523	4.813	1.00	0.00	H
	ATOM	503	2HB	ARG	A	37150.950	3.845	6.532	1.00	0.00	H
25	ATOM	504	1HG	ARG	A	37149.220	1.587	5.641	1.00	0.00	H
	ATOM	505	2HG	ARG	A	37150.976	1.402	5.640	1.00	0.00	H
	ATOM	506	1HD	ARG	A	37150.154	0.600	7.734	1.00	0.00	H
	ATOM	507	2HD	ARG	A	37150.979	2.130	8.025	1.00	0.00	H
	ATOM	508	HE	ARG	A	37148.145	2.397	7.619	1.00	0.00	H

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	ATOM	509	1HH1	ARG	A	37150.657	1.793	9.966	1.00	0.00	H
	ATOM	510	2HH1	ARG	A	37149.704	2.329	11.308	1.00	0.00	H
	ATOM	511	1HH2	ARG	A	37146.890	3.103	9.384	1.00	0.00	H
	ATOM	512	2HH2	ARG	A	37147.565	3.072	10.979	1.00	0.00	H
5	ATOM	513	N	TRP	A	38149.841	5.814	4.206	1.00	0.00	N
	ATOM	514	CA	TRP	A	38150.132	7.149	3.697	1.00	0.00	C
	ATOM	515	C	TRP	A	38149.473	7.373	2.337	1.00	0.00	C
	ATOM	516	O	TRP	A	38149.599	6.550	1.431	1.00	0.00	O
	ATOM	517	CB	TRP	A	38151.647	7.361	3.589	1.00	0.00	C
10	ATOM	518	CG	TRP	A	38152.027	8.592	2.820	1.00	0.00	C
	ATOM	519	CD1	TRP	A	38152.264	9.837	3.329	1.00	0.00	C
	ATOM	520	CD2	TRP	A	38152.208	8.696	1.403	1.00	0.00	C
	ATOM	521	NE1	TRP	A	38152.581	10.708	2.314	1.00	0.00	N
	ATOM	522	CE2	TRP	A	38152.554	10.031	1.123	1.00	0.00	C
15	ATOM	523	CE3	TRP	A	38152.112	7.789	0.344	1.00	0.00	C
	ATOM	524	CZ2	TRP	A	38152.803	10.479	-0.172	1.00	0.00	C
	ATOM	525	CZ3	TRP	A	38152.360	8.234	-0.940	1.00	0.00	C
	ATOM	526	CH2	TRP	A	38152.702	9.569	-1.189	1.00	0.00	C
	ATOM	527	H	TRP	A	38150.114	5.032	3.682	1.00	0.00	H
20	ATOM	528	HA	TRP	A	38149.728	7.865	4.398	1.00	0.00	H
	ATOM	529	1HB	TRP	A	38152.062	7.447	4.581	1.00	0.00	H
	ATOM	530	2HB	TRP	A	38152.086	6.508	3.092	1.00	0.00	H
	ATOM	531	HD1	TRP	A	38152.207	10.086	4.378	1.00	0.00	H
	ATOM	532	HE1	TRP	A	38152.794	11.659	2.426	1.00	0.00	H
25	ATOM	533	HE3	TRP	A	38151.849	6.756	0.517	1.00	0.00	H
	ATOM	534	HZ2	TRP	A	38153.065	11.506	-0.381	1.00	0.00	H
	ATOM	535	HZ3	TRP	A	38152.290	7.547	-1.770	1.00	0.00	H
	ATOM	536	HH2	TRP	A	38152.887	9.873	-2.209	1.00	0.00	H
	ATOM	537	N	ILE	A	39148.781	8.499	2.204	1.00	0.00	N

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	ATOM	538	CA	ILE A	39148.111	8.845	0.957	1.00	0.00	C
	ATOM	539	C	ILE A	39148.616	10.185	0.433	1.00	0.00	C
	ATOM	540	O	ILE A	39148.281	11.239	0.974	1.00	0.00	O
	ATOM	541	CB	ILE A	39146.583	8.917	1.137	1.00	0.00	C
5	ATOM	542	CG1	ILE A	39146.066	7.647	1.816	1.00	0.00	C
	ATOM	543	CG2	ILE A	39145.898	9.121	-0.206	1.00	0.00	C
	ATOM	544	CD1	ILE A	39144.781	7.854	2.588	1.00	0.00	C
	ATOM	545	H	ILE A	39148.726	9.117	2.963	1.00	0.00	H
	ATOM	546	HA	ILE A	39148.335	8.077	0.231	1.00	0.00	H
10	ATOM	547	HB	ILE A	39146.356	9.767	1.761	1.00	0.00	H
	ATOM	548	1HG1	ILE A	39145.881	6.894	1.064	1.00	0.00	H
	ATOM	549	2HG1	ILE A	39146.814	7.285	2.506	1.00	0.00	H
	ATOM	550	1HG2	ILE A	39146.213	8.348	-0.892	1.00	0.00	H
	ATOM	551	2HG2	ILE A	39146.169	10.088	-0.605	1.00	0.00	H
15	ATOM	552	3HG2	ILE A	39144.827	9.073	-0.076	1.00	0.00	H
	ATOM	553	1HD1	ILE A	39144.535	6.952	3.127	1.00	0.00	H
	ATOM	554	2HD1	ILE A	39143.983	8.092	1.900	1.00	0.00	H
	ATOM	555	3HD1	ILE A	39144.908	8.668	3.286	1.00	0.00	H
	ATOM	556	N	GLY A	40149.429	10.140	-0.617	1.00	0.00	N
20	ATOM	557	CA	GLY A	40149.970	11.360	-1.185	1.00	0.00	C
	ATOM	558	C	GLY A	40150.570	11.152	-2.561	1.00	0.00	C
	ATOM	559	O	GLY A	40150.382	10.103	-3.177	1.00	0.00	O
	ATOM	560	H	GLY A	40149.667	9.272	-1.006	1.00	0.00	H
	ATOM	561	1HA	GLY A	40149.179	12.091	-1.257	1.00	0.00	H
25	ATOM	562	2HA	GLY A	40150.735	11.740	-0.525	1.00	0.00	H
	ATOM	563	N	GLN A	41151.290	12.159	-3.044	1.00	0.00	N
	ATOM	564	CA	GLN A	41151.919	12.094	-4.355	1.00	0.00	C
	ATOM	565	C	GLN A	41153.396	12.478	-4.267	1.00	0.00	C
	ATOM	566	O	GLN A	41153.728	13.616	-3.935	1.00	0.00	O

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	ATOM	567	CB	GLN A	41151.195	13.024	-5.325	1.00	0.00	C
	ATOM	568	CG	GLN A	41149.683	12.862	-5.309	1.00	0.00	C
	ATOM	569	CD	GLN A	41148.955	14.188	-5.405	1.00	0.00	C
	ATOM	570	OE1	GLN A	41148.905	14.953	-4.443	1.00	0.00	O
5	ATOM	571	NE2	GLN A	41148.387	14.464	-6.571	1.00	0.00	N
	ATOM	572	H	GLN A	41151.398	12.969	-2.505	1.00	0.00	H
	ATOM	573	HA	GLN A	41151.839	11.080	-4.713	1.00	0.00	H
	ATOM	574	1HB	GLN A	41151.427	14.046	-5.067	1.00	0.00	H
	ATOM	575	2HB	GLN A	41151.546	12.826	-6.325	1.00	0.00	H
10	ATOM	576	1HG	GLN A	41149.390	12.247	-6.145	1.00	0.00	H
	ATOM	577	2HG	GLN A	41149.396	12.376	-4.388	1.00	0.00	H
	ATOM	578	1HE2	GLN A	41148.468	13.805	-7.292	1.00	0.00	H
	ATOM	579	2HE2	GLN A	41147.910	15.314	-6.665	1.00	0.00	H
	ATOM	580	N	PRO A	42154.309	11.532	-4.559	1.00	0.00	N
15	ATOM	581	CA	PRO A	42155.752	11.787	-4.505	1.00	0.00	C
	ATOM	582	C	PRO A	42156.172	12.938	-5.414	1.00	0.00	C
	ATOM	583	O	PRO A	42155.454	13.294	-6.350	1.00	0.00	O
	ATOM	584	CB	PRO A	42156.371	10.471	-4.989	1.00	0.00	C
	ATOM	585	CG	PRO A	42155.320	9.444	-4.752	1.00	0.00	C
20	ATOM	586	CD	PRO A	42154.010	10.147	-4.961	1.00	0.00	C
	ATOM	587	HA	PRO A	42156.079	11.991	-3.496	1.00	0.00	H
	ATOM	588	1HB	PRO A	42156.616	10.552	-6.039	1.00	0.00	H
	ATOM	589	2HB	PRO A	42157.265	10.260	-4.420	1.00	0.00	H
	ATOM	590	1HG	PRO A	42155.429	8.634	-5.458	1.00	0.00	H
25	ATOM	591	2HG	PRO A	42155.389	9.074	-3.739	1.00	0.00	H
	ATOM	592	1HD	PRO A	42153.719	10.100	-6.000	1.00	0.00	H
	ATOM	593	2HD	PRO A	42153.244	9.717	-4.331	1.00	0.00	H
	ATOM	594	N	PRO A	43157.345	13.537	-5.151	1.00	0.00	N
	ATOM	595	CA	PRO A	43157.858	14.653	-5.950	1.00	0.00	C

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	ATOM	596	C	PRO A	43158.331	14.206	-7.328	1.00	0.00	C
	ATOM	597	O	PRO A	43159.507	13.894	-7.520	1.00	0.00	O
	ATOM	598	CB	PRO A	43159.035	15.169	-5.124	1.00	0.00	C
	ATOM	599	CG	PRO A	43159.493	13.989	-4.340	1.00	0.00	C
5	ATOM	600	CD	PRO A	43158.261	13.173	-4.054	1.00	0.00	C
	ATOM	601	HA	PRO A	43157.120	15.433	-6.060	1.00	0.00	H
	ATOM	602	1HB	PRO A	43159.809	15.530	-5.785	1.00	0.00	H
	ATOM	603	2HB	PRO A	43158.703	15.968	-4.478	1.00	0.00	H
	ATOM	604	1HG	PRO A	43160.198	13.412	-4.922	1.00	0.00	H
10	ATOM	605	2HG	PRO A	43159.948	14.316	-3.417	1.00	0.00	H
	ATOM	606	1HD	PRO A	43158.493	12.119	-4.080	1.00	0.00	H
	ATOM	607	2HD	PRO A	43157.843	13.445	-3.096	1.00	0.00	H
	ATOM	608	N	GLY A	44157.411	14.178	-8.286	1.00	0.00	N
	ATOM	609	CA	GLY A	44157.758	13.769	-9.633	1.00	0.00	C
15	ATOM	610	C	GLY A	44156.560	13.280	-10.418	1.00	0.00	C
	ATOM	611	O	GLY A	44156.327	13.716	-11.546	1.00	0.00	O
	ATOM	612	H	GLY A	44156.490	14.438	-8.076	1.00	0.00	H
	ATOM	613	1HA	GLY A	44158.194	14.610	-10.151	1.00	0.00	H
	ATOM	614	2HA	GLY A	44158.488	12.976	-9.579	1.00	0.00	H
20	ATOM	615	N	LEU A	45155.794	12.370	-9.824	1.00	0.00	N
	ATOM	616	CA	LEU A	45154.613	11.822	-10.479	1.00	0.00	C
	ATOM	617	C	LEU A	45153.363	12.082	-9.648	1.00	0.00	C
	ATOM	618	O	LEU A	45153.203	11.525	-8.562	1.00	0.00	O
	ATOM	619	CB	LEU A	45154.783	10.318	-10.708	1.00	0.00	C
25	ATOM	620	CG	LEU A	45155.251	9.525	-9.486	1.00	0.00	C
	ATOM	621	CD1	LEU A	45154.856	8.060	-9.614	1.00	0.00	C
	ATOM	622	CD2	LEU A	45156.757	9.664	-9.304	1.00	0.00	C
	ATOM	623	H	LEU A	45156.030	12.060	-8.922	1.00	0.00	H
	ATOM	624	HA	LEU A	45154.505	12.313	-11.435	1.00	0.00	H

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	ATOM	625	1HB	LEU	A	45153.834	9.915	-11.032	1.00	0.00	H
	ATOM	626	2HB	LEU	A	45155.504	10.175	-11.499	1.00	0.00	H
	ATOM	627	HG	LEU	A	45154.770	9.923	-8.604	1.00	0.00	H
	ATOM	628	1HD1	LEU	A	45154.124	7.818	-8.858	1.00	0.00	H
5	ATOM	629	2HD1	LEU	A	45155.729	7.438	-9.480	1.00	0.00	H
	ATOM	630	3HD1	LEU	A	45154.437	7.883	-10.593	1.00	0.00	H
	ATOM	631	1HD2	LEU	A	45156.974	9.910	-8.275	1.00	0.00	H
	ATOM	632	2HD2	LEU	A	45157.127	10.451	-9.947	1.00	0.00	H
	ATOM	633	3HD2	LEU	A	45157.239	8.733	-9.562	1.00	0.00	H
10	ATOM	634	N	ASN	A	46152.477	12.930	-10.162	1.00	0.00	N
	ATOM	635	CA	ASN	A	46151.245	13.251	-9.454	1.00	0.00	C
	ATOM	636	C	ASN	A	46150.273	12.078	-9.511	1.00	0.00	C
	ATOM	637	O	ASN	A	46149.690	11.790	-10.556	1.00	0.00	O
	ATOM	638	CB	ASN	A	46150.597	14.498	-10.061	1.00	0.00	C
15	ATOM	639	CG	ASN	A	46149.341	14.917	-9.325	1.00	0.00	C
	ATOM	640	OD1	ASN	A	46149.358	15.856	-8.529	1.00	0.00	O
	ATOM	641	ND2	ASN	A	46148.241	14.221	-9.587	1.00	0.00	N
	ATOM	642	H	ASN	A	46152.654	13.344	-11.032	1.00	0.00	H
	ATOM	643	HA	ASN	A	46151.494	13.450	-8.423	1.00	0.00	H
20	ATOM	644	1HB	ASN	A	46151.301	15.315	-10.025	1.00	0.00	H
	ATOM	645	2HB	ASN	A	46150.338	14.296	-11.091	1.00	0.00	H
	ATOM	646	1HD2	ASN	A	46148.301	13.486	-10.233	1.00	0.00	H
	ATOM	647	2HD2	ASN	A	46147.413	14.471	-9.125	1.00	0.00	H
	ATOM	648	N	GLU	A	47150.105	11.406	-8.378	1.00	0.00	N
25	ATOM	649	CA	GLU	A	47149.205	10.262	-8.289	1.00	0.00	C
	ATOM	650	C	GLU	A	47148.956	9.884	-6.833	1.00	0.00	C
	ATOM	651	O	GLU	A	47149.896	9.621	-6.083	1.00	0.00	O
	ATOM	652	CB	GLU	A	47149.782	9.066	-9.049	1.00	0.00	C
	ATOM	653	CG	GLU	A	47151.289	8.916	-8.907	1.00	0.00	C

	ATOM	654	CD	GLU	A	47151.881	7.979	-9.941	1.00	0.00	C
	ATOM	655	OE1	GLU	A	47152.122	8.429	-11.081	1.00	0.00	O
	ATOM	656	OE2	GLU	A	47152.104	6.795	-9.612	1.00	0.00	O
	ATOM	657	H	GLU	A	47150.599	11.686	-7.580	1.00	0.00	H
5	ATOM	658	HA	GLU	A	47148.266	10.545	-8.740	1.00	0.00	H
	ATOM	659	1HB	GLU	A	47149.317	8.163	-8.682	1.00	0.00	H
	ATOM	660	2HB	GLU	A	47149.550	9.176	-10.099	1.00	0.00	H
	ATOM	661	1HG	GLU	A	47151.746	9.887	-9.021	1.00	0.00	H
	ATOM	662	2HG	GLU	A	47151.509	8.529	-7.924	1.00	0.00	H
10	ATOM	663	N	VAL	A	48147.688	9.850	-6.439	1.00	0.00	N
	ATOM	664	CA	VAL	A	48147.331	9.494	-5.072	1.00	0.00	C
	ATOM	665	C	VAL	A	48147.655	8.030	-4.795	1.00	0.00	C
	ATOM	666	O	VAL	A	48146.912	7.133	-5.191	1.00	0.00	O
	ATOM	667	CB	VAL	A	48145.835	9.739	-4.796	1.00	0.00	C
15	ATOM	668	CG1	VAL	A	48145.527	9.554	-3.319	1.00	0.00	C
	ATOM	669	CG2	VAL	A	48145.427	11.128	-5.265	1.00	0.00	C
	ATOM	670	H	VAL	A	48146.979	10.064	-7.080	1.00	0.00	H
	ATOM	671	HA	VAL	A	48147.908	10.113	-4.401	1.00	0.00	H
	ATOM	672	HB	VAL	A	48145.263	9.012	-5.353	1.00	0.00	H
20	ATOM	673	1HG1	VAL	A	48145.685	8.522	-3.044	1.00	0.00	H
	ATOM	674	2HG1	VAL	A	48144.498	9.824	-3.129	1.00	0.00	H
	ATOM	675	3HG1	VAL	A	48146.178	10.186	-2.733	1.00	0.00	H
	ATOM	676	1HG2	VAL	A	48145.171	11.092	-6.314	1.00	0.00	H
	ATOM	677	2HG2	VAL	A	48146.248	11.813	-5.118	1.00	0.00	H
25	ATOM	678	3HG2	VAL	A	48144.572	11.462	-4.697	1.00	0.00	H
	ATOM	679	N	LEU	A	49148.771	7.795	-4.114	1.00	0.00	N
	ATOM	680	CA	LEU	A	49149.196	6.439	-3.787	1.00	0.00	C
	ATOM	681	C	LEU	A	49149.018	6.158	-2.301	1.00	0.00	C
	ATOM	682	O	LEU	A	49149.659	6.789	-1.460	1.00	0.00	O



	ATOM	683	CB	LEU A	49150.657	6.228	-4.185	1.00	0.00	C
	ATOM	684	CG	LEU A	49150.989	6.568	-5.640	1.00	0.00	C
	ATOM	685	CD1	LEU A	49152.472	6.871	-5.792	1.00	0.00	C
	ATOM	686	CD2	LEU A	49150.580	5.427	-6.559	1.00	0.00	C
5	ATOM	687	H	LEU A	49149.325	8.551	-3.824	1.00	0.00	H
	ATOM	688	HA	LEU A	49148.577	5.754	-4.347	1.00	0.00	H
	ATOM	689	1HB	LEU A	49151.275	6.841	-3.544	1.00	0.00	H
	ATOM	690	2HB	LEU A	49150.909	5.192	-4.016	1.00	0.00	H
	ATOM	691	HG	LEU A	49150.437	7.449	-5.931	1.00	0.00	H
10	ATOM	692	1HD1	LEU A	49152.882	7.153	-4.833	1.00	0.00	H
	ATOM	693	2HD1	LEU A	49152.604	7.682	-6.492	1.00	0.00	H
	ATOM	694	3HD1	LEU A	49152.984	5.993	-6.157	1.00	0.00	H
	ATOM	695	1HD2	LEU A	49149.667	4.980	-6.195	1.00	0.00	H
	ATOM	696	2HD2	LEU A	49151.362	4.682	-6.578	1.00	0.00	H
15	ATOM	697	3HD2	LEU A	49150.421	5.808	-7.556	1.00	0.00	H
	ATOM	698	N	ALA A	50148.145	5.210	-1.983	1.00	0.00	N
	ATOM	699	CA	ALA A	50147.887	4.849	-0.596	1.00	0.00	C
	ATOM	700	C	ALA A	50148.794	3.707	-0.151	1.00	0.00	C
	ATOM	701	O	ALA A	50148.698	2.591	-0.660	1.00	0.00	O
20	ATOM	702	CB	ALA A	50146.426	4.471	-0.412	1.00	0.00	C
	ATOM	703	H	ALA A	50147.665	4.741	-2.698	1.00	0.00	H
	ATOM	704	HA	ALA A	50148.091	5.718	0.013	1.00	0.00	H
	ATOM	705	1HB	ALA A	50146.071	4.857	0.531	1.00	0.00	H
	ATOM	706	2HB	ALA A	50146.329	3.395	-0.421	1.00	0.00	H
25	ATOM	707	3HB	ALA A	50145.841	4.890	-1.217	1.00	0.00	H
	ATOM	708	N	GLY A	51149.675	3.995	0.801	1.00	0.00	N
	ATOM	709	CA	GLY A	51150.587	2.981	1.299	1.00	0.00	C
	ATOM	710	C	GLY A	51149.892	1.946	2.160	1.00	0.00	C
	ATOM	711	O	GLY A	51149.589	2.200	3.325	1.00	0.00	O

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	ATOM	712	H	GLY A	51149.707	4.902	1.170	1.00	0.00	H
	ATOM	713	1HA	GLY A	51151.047	2.483	0.458	1.00	0.00	H
	ATOM	714	2HA	GLY A	51151.356	3.462	1.885	1.00	0.00	H
	ATOM	715	N	LEU A	52149.638	0.775	1.585	1.00	0.00	N
5	ATOM	716	CA	LEU A	52148.973	-0.303	2.309	1.00	0.00	C
	ATOM	717	C	LEU A	52149.989	-1.169	3.048	1.00	0.00	C
	ATOM	718	O	LEU A	52151.096	-1.398	2.561	1.00	0.00	O
	ATOM	719	CB	LEU A	52148.157	-1.166	1.345	1.00	0.00	C
	ATOM	720	CG	LEU A	52146.971	-0.456	0.688	1.00	0.00	C
10	ATOM	721	CD1	LEU A	52146.473	-1.249	-0.511	1.00	0.00	C
	ATOM	722	CD2	LEU A	52145.850	-0.249	1.695	1.00	0.00	C
	ATOM	723	H	LEU A	52149.904	0.632	0.653	1.00	0.00	H
	ATOM	724	HA	LEU A	52148.307	0.145	3.030	1.00	0.00	H
	ATOM	725	1HB	LEU A	52148.816	-1.520	0.565	1.00	0.00	H
15	ATOM	726	2HB	LEU A	52147.780	-2.018	1.889	1.00	0.00	H
	ATOM	727	HG	LEU A	52147.291	0.514	0.337	1.00	0.00	H
	ATOM	728	1HD1	LEU A	52147.292	-1.809	-0.937	1.00	0.00	H
	ATOM	729	2HD1	LEU A	52146.077	-0.569	-1.252	1.00	0.00	H
	ATOM	730	3HD1	LEU A	52145.696	-1.929	-0.195	1.00	0.00	H
20	ATOM	731	1HD2	LEU A	52145.336	-1.185	1.860	1.00	0.00	H
	ATOM	732	2HD2	LEU A	52145.154	0.482	1.314	1.00	0.00	H
	ATOM	733	3HD2	LEU A	52146.266	0.102	2.628	1.00	0.00	H
	ATOM	734	N	GLU A	53149.603	-1.646	4.227	1.00	0.00	N
	ATOM	735	CA	GLU A	53150.479	-2.487	5.035	1.00	0.00	C
25	ATOM	736	C	GLU A	53149.945	-3.914	5.110	1.00	0.00	C
	ATOM	737	O	GLU A	53148.905	-4.167	5.719	1.00	0.00	O
	ATOM	738	CB	GLU A	53150.619	-1.908	6.444	1.00	0.00	C
	ATOM	739	CG	GLU A	53151.548	-2.709	7.342	1.00	0.00	C
	ATOM	740	CD	GLU A	53151.003	-2.872	8.747	1.00	0.00	C

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	ATOM	741	OE1	GLU	A	53150.405	-3.929	9.034	1.00	0.00	O
	ATOM	742	OE2	GLU	A	53151.176	-1.940	9.563	1.00	0.00	O
	ATOM	743	H	GLU	A	53148.708	-1.428	4.562	1.00	0.00	H
	ATOM	744	HA	GLU	A	53151.451	-2.503	4.564	1.00	0.00	H
5	ATOM	745	1HB	GLU	A	53151.004	-0.902	6.370	1.00	0.00	H
	ATOM	746	2HB	GLU	A	53149.644	-1.877	6.907	1.00	0.00	H
	ATOM	747	1HG	GLU	A	53151.686	-3.690	6.911	1.00	0.00	H
	ATOM	748	2HG	GLU	A	53152.500	-2.203	7.396	1.00	0.00	H
	ATOM	749	N	LEU	A	54150.663	-4.842	4.488	1.00	0.00	N
10	ATOM	750	CA	LEU	A	54150.262	-6.244	4.484	1.00	0.00	C
	ATOM	751	C	LEU	A	54150.392	-6.851	5.878	1.00	0.00	C
	ATOM	752	O	LEU	A	54151.214	-6.411	6.682	1.00	0.00	O
	ATOM	753	CB	LEU	A	54151.110	-7.037	3.488	1.00	0.00	C
	ATOM	754	CG	LEU	A	54151.206	-6.425	2.090	1.00	0.00	C
15	ATOM	755	CD1	LEU	A	54152.397	-6.999	1.338	1.00	0.00	C
	ATOM	756	CD2	LEU	A	54149.919	-6.664	1.315	1.00	0.00	C
	ATOM	757	H	LEU	A	54151.483	-4.580	4.020	1.00	0.00	H
	ATOM	758	HA	LEU	A	54149.227	-6.292	4.180	1.00	0.00	H
	ATOM	759	1HB	LEU	A	54152.108	-7.127	3.890	1.00	0.00	H
20	ATOM	760	2HB	LEU	A	54150.687	-8.026	3.396	1.00	0.00	H
	ATOM	761	HG	LEU	A	54151.352	-5.358	2.180	1.00	0.00	H
	ATOM	762	1HD1	LEU	A	54152.143	-7.976	0.952	1.00	0.00	H
	ATOM	763	2HD1	LEU	A	54153.239	-7.086	2.009	1.00	0.00	H
	ATOM	764	3HD1	LEU	A	54152.656	-6.345	0.519	1.00	0.00	H
25	ATOM	765	1HD2	LEU	A	54149.250	-5.828	1.463	1.00	0.00	H
	ATOM	766	2HD2	LEU	A	54149.448	-7.569	1.667	1.00	0.00	H
	ATOM	767	3HD2	LEU	A	54150.145	-6.761	0.263	1.00	0.00	H
	ATOM	768	N	GLU	A	55149.577	-7.864	6.156	1.00	0.00	N
	ATOM	769	CA	GLU	A	55149.603	-8.531	7.451	1.00	0.00	C

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	ATOM	770	C	GLU A	55150.652	-9.638	7.472	1.00	0.00	C
	ATOM	771	O	GLU A	55151.247	-9.925	8.511	1.00	0.00	O
	ATOM	772	CB	GLU A	55148.225	-9.112	7.777	1.00	0.00	C
	ATOM	773	CG	GLU A	55147.239	-8.081	8.300	1.00	0.00	C
5	ATOM	774	CD	GLU A	55147.170	-8.058	9.815	1.00	0.00	C
	ATOM	775	OE1	GLU A	55146.195	-8.603	10.374	1.00	0.00	O
	ATOM	776	OE2	GLU A	55148.091	-7.495	10.444	1.00	0.00	O
	ATOM	777	H	GLU A	55148.945	-8.169	5.473	1.00	0.00	H
	ATOM	778	HA	GLU A	55149.859	-7.795	8.199	1.00	0.00	H
10	ATOM	779	1HB	GLU A	55147.812	-9.551	6.880	1.00	0.00	H
	ATOM	780	2HB	GLU A	55148.339	-9.882	8.525	1.00	0.00	H
	ATOM	781	1HG	GLU A	55147.543	-7.103	7.955	1.00	0.00	H
	ATOM	782	2HG	GLU A	55146.258	-8.311	7.913	1.00	0.00	H
	ATOM	783	N	ASP A	56150.874	-10.258	6.317	1.00	0.00	N
15	ATOM	784	CA	ASP A	56151.851	-11.333	6.202	1.00	0.00	C
	ATOM	785	C	ASP A	56153.173	-10.811	5.649	1.00	0.00	C
	ATOM	786	O	ASP A	56153.208	-10.169	4.599	1.00	0.00	O
	ATOM	787	CB	ASP A	56151.313	-12.446	5.301	1.00	0.00	C
	ATOM	788	CG	ASP A	56150.352	-13.365	6.029	1.00	0.00	C
20	ATOM	789	OD1	ASP A	56149.236	-13.588	5.512	1.00	0.00	O
	ATOM	790	OD2	ASP A	56150.715	-13.864	7.114	1.00	0.00	O
	ATOM	791	H	ASP A	56150.368	-9.984	5.523	1.00	0.00	H
	ATOM	792	HA	ASP A	56152.022	-11.733	7.190	1.00	0.00	H
	ATOM	793	1HB	ASP A	56150.793	-12.004	4.464	1.00	0.00	H
25	ATOM	794	2HB	ASP A	56152.140	-13.036	4.934	1.00	0.00	H
	ATOM	795	N	GLU A	57154.259	-11.088	6.363	1.00	0.00	N
	ATOM	796	CA	GLU A	57155.584	-10.645	5.943	1.00	0.00	C
	ATOM	797	C	GLU A	57156.033	-11.387	4.689	1.00	0.00	C
	ATOM	798	O	GLU A	57156.555	-12.499	4.766	1.00	0.00	O

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	ATOM	799	CB	GLU A	57156.597	-10.862	7.068	1.00	0.00	C
	ATOM	800	CG	GLU A	57156.634	-9.728	8.079	1.00	0.00	C
	ATOM	801	CD	GLU A	57157.934	-9.686	8.859	1.00	0.00	C
	ATOM	802	OE1	GLU A	57158.886	-9.025	8.391	1.00	0.00	O
5	ATOM	803	OE2	GLU A	57158.001	-10.312	9.938	1.00	0.00	O
	ATOM	804	H	GLU A	57154.167	-11.603	7.192	1.00	0.00	H
	ATOM	805	HA	GLU A	57155.525	-9.590	5.722	1.00	0.00	H
	ATOM	806	1HB	GLU A	57156.348	-11.774	7.591	1.00	0.00	H
	ATOM	807	2HB	GLU A	57157.582	-10.963	6.636	1.00	0.00	H
10	ATOM	808	1HG	GLU A	57156.517	-8.792	7.557	1.00	0.00	H
	ATOM	809	2HG	GLU A	57155.819	-9.856	8.776	1.00	0.00	H
	ATOM	810	N	CYS A	58155.825	-10.764	3.533	1.00	0.00	N
	ATOM	811	CA	CYS A	58156.210	-11.364	2.261	1.00	0.00	C
	ATOM	812	C	CYS A	58157.455	-10.689	1.695	1.00	0.00	C
15	ATOM	813	O	CYS A	58157.512	-9.465	1.580	1.00	0.00	O
	ATOM	814	CB	CYS A	58155.060	-11.263	1.258	1.00	0.00	C
	ATOM	815	SG	CYS A	58155.200	-12.400	-0.142	1.00	0.00	S
	ATOM	816	H	CYS A	58155.405	-9.879	3.536	1.00	0.00	H
	ATOM	817	HA	CYS A	58156.429	-12.406	2.440	1.00	0.00	H
20	ATOM	818	1HB	CYS A	58154.131	-11.480	1.763	1.00	0.00	H
	ATOM	819	2HB	CYS A	58155.023	-10.257	0.864	1.00	0.00	H
	ATOM	820	HG	CYS A	58155.346	-13.282	0.206	1.00	0.00	H
	ATOM	821	N	ALA A	59158.450	-11.497	1.343	1.00	0.00	N
	ATOM	822	CA	ALA A	59159.695	-10.978	0.787	1.00	0.00	C
25	ATOM	823	C	ALA A	59159.453	-10.283	-0.548	1.00	0.00	C
	ATOM	824	O	ALA A	59158.956	-10.893	-1.495	1.00	0.00	O
	ATOM	825	CB	ALA A	59160.709	-12.100	0.625	1.00	0.00	C
	ATOM	826	H	ALA A	59158.345	-12.464	1.458	1.00	0.00	H
	ATOM	827	HA	ALA A	59160.097	-10.259	1.487	1.00	0.00	H

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	ATOM	828	1HB	ALA	A	59161.226	-12.256	1.561	1.00	0.00	H
	ATOM	829	2HB	ALA	A	59161.421	-11.833	-0.141	1.00	0.00	H
	ATOM	830	3HB	ALA	A	59160.197	-13.008	0.341	1.00	0.00	H
	ATOM	831	N	GLY	A	60159.808	-9.005	-0.618	1.00	0.00	N
5	ATOM	832	CA	GLY	A	60159.622	-8.249	-1.842	1.00	0.00	C
	ATOM	833	C	GLY	A	60159.105	-6.847	-1.587	1.00	0.00	C
	ATOM	834	O	GLY	A	60159.364	-5.931	-2.367	1.00	0.00	O
	ATOM	835	H	GLY	A	60160.200	-8.570	0.169	1.00	0.00	H
	ATOM	836	1HA	GLY	A	60160.568	-8.184	-2.359	1.00	0.00	H
10	ATOM	837	2HA	GLY	A	60158.916	-8.772	-2.471	1.00	0.00	H
	ATOM	838	N	CYS	A	61158.372	-6.679	-0.491	1.00	0.00	N
	ATOM	839	CA	CYS	A	61157.818	-5.378	-0.135	1.00	0.00	C
	ATOM	840	C	CYS	A	61158.817	-4.564	0.680	1.00	0.00	C
	ATOM	841	O	CYS	A	61159.828	-5.091	1.147	1.00	0.00	O
15	ATOM	842	CB	CYS	A	61156.519	-5.553	0.656	1.00	0.00	C
	ATOM	843	SG	CYS	A	61155.273	-6.557	-0.185	1.00	0.00	S
	ATOM	844	H	CYS	A	61158.200	-7.447	0.092	1.00	0.00	H
	ATOM	845	HA	CYS	A	61157.602	-4.848	-1.050	1.00	0.00	H
	ATOM	846	1HB	CYS	A	61156.742	-6.029	1.598	1.00	0.00	H
20	ATOM	847	2HB	CYS	A	61156.087	-4.581	0.843	1.00	0.00	H
	ATOM	848	HG	CYS	A	61154.755	-7.009	0.485	1.00	0.00	H
	ATOM	849	N	THR	A	62158.529	-3.278	0.848	1.00	0.00	N
	ATOM	850	CA	THR	A	62159.402	-2.391	1.608	1.00	0.00	C
	ATOM	851	C	THR	A	62158.917	-2.249	3.047	1.00	0.00	C
25	ATOM	852	O	THR	A	62157.942	-2.885	3.448	1.00	0.00	O
	ATOM	853	CB	THR	A	62159.471	-1.016	0.942	1.00	0.00	C
	ATOM	854	OG1	THR	A	62158.253	-0.718	0.283	1.00	0.00	O
	ATOM	855	CG2	THR	A	62160.584	-0.898	-0.076	1.00	0.00	C
	ATOM	856	H	THR	A	62157.709	-2.916	0.453	1.00	0.00	H

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	ATOM	857	HA	THR	A	62160.390	-2.827	1.616	1.00	0.00	H
	ATOM	858	HB	THR	A	62159.637	-0.267	1.703	1.00	0.00	H
	ATOM	859	HG1	THR	A	62158.243	0.209	0.033	1.00	0.00	H
	ATOM	860	1HG2	THR	A	62161.538	-0.993	0.421	1.00	0.00	H
5	ATOM	861	2HG2	THR	A	62160.526	0.064	-0.563	1.00	0.00	H
	ATOM	862	3HG2	THR	A	62160.483	-1.681	-0.812	1.00	0.00	H
	ATOM	863	N	ASP	A	63159.602	-1.412	3.818	1.00	0.00	N
	ATOM	864	CA	ASP	A	63159.240	-1.185	5.212	1.00	0.00	C
	ATOM	865	C	ASP	A	63158.612	0.192	5.394	1.00	0.00	C
10	ATOM	866	O	ASP	A	63158.751	0.814	6.448	1.00	0.00	O
	ATOM	867	CB	ASP	A	63160.473	-1.319	6.108	1.00	0.00	C
	ATOM	868	CG	ASP	A	63161.586	-0.372	5.706	1.00	0.00	C
	ATOM	869	OD1	ASP	A	63162.107	-0.513	4.580	1.00	0.00	O
	ATOM	870	OD2	ASP	A	63161.935	0.512	6.517	1.00	0.00	O
15	ATOM	871	H	ASP	A	63160.370	-0.933	3.440	1.00	0.00	H
	ATOM	872	HA	ASP	A	63158.518	-1.938	5.493	1.00	0.00	H
	ATOM	873	1HB	ASP	A	63160.193	-1.104	7.129	1.00	0.00	H
	ATOM	874	2HB	ASP	A	63160.846	-2.331	6.048	1.00	0.00	H
	ATOM	875	N	GLY	A	64157.919	0.662	4.363	1.00	0.00	N
20	ATOM	876	CA	GLY	A	64157.278	1.963	4.429	1.00	0.00	C
	ATOM	877	C	GLY	A	64158.053	3.031	3.681	1.00	0.00	C
	ATOM	878	O	GLY	A	64158.129	4.177	4.125	1.00	0.00	O
	ATOM	879	H	GLY	A	64157.841	0.122	3.548	1.00	0.00	H
	ATOM	880	1HA	GLY	A	64156.289	1.887	4.004	1.00	0.00	H
25	ATOM	881	2HA	GLY	A	64157.192	2.256	5.466	1.00	0.00	H
	ATOM	882	N	THR	A	65158.628	2.654	2.544	1.00	0.00	N
	ATOM	883	CA	THR	A	65159.401	3.587	1.733	1.00	0.00	C
	ATOM	884	C	THR	A	65159.066	3.428	0.253	1.00	0.00	C
	ATOM	885	O	THR	A	65159.267	2.360	-0.328	1.00	0.00	O

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	ATOM	886	CB	THR	A	65160.898	3.371	1.955	1.00	0.00	C
	ATOM	887	OG1	THR	A	65161.198	1.990	2.046	1.00	0.00	O
	ATOM	888	CG2	THR	A	65161.419	4.037	3.210	1.00	0.00	C
	ATOM	889	H	THR	A	65158.532	1.726	2.243	1.00	0.00	H
5	ATOM	890	HA	THR	A	65159.141	4.589	2.042	1.00	0.00	H
	ATOM	891	HB	THR	A	65161.439	3.780	1.113	1.00	0.00	H
	ATOM	892	HG1	THR	A	65160.877	1.539	1.261	1.00	0.00	H
	ATOM	893	1HG2	THR	A	65161.665	5.067	2.995	1.00	0.00	H
	ATOM	894	2HG2	THR	A	65162.303	3.520	3.551	1.00	0.00	H
10	ATOM	895	3HG2	THR	A	65160.661	4.001	3.978	1.00	0.00	H
	ATOM	896	N	PHE	A	66158.556	4.496	-0.352	1.00	0.00	N
	ATOM	897	CA	PHE	A	66158.193	4.473	-1.764	1.00	0.00	C
	ATOM	898	C	PHE	A	66159.281	5.122	-2.615	1.00	0.00	C
	ATOM	899	O	PHE	A	66159.440	6.343	-2.613	1.00	0.00	O
15	ATOM	900	CB	PHE	A	66156.862	5.195	-1.982	1.00	0.00	C
	ATOM	901	CG	PHE	A	66156.296	5.008	-3.360	1.00	0.00	C
	ATOM	902	CD1	PHE	A	66155.867	3.760	-3.784	1.00	0.00	C
	ATOM	903	CD2	PHE	A	66156.194	6.080	-4.233	1.00	0.00	C
	ATOM	904	CE1	PHE	A	66155.346	3.585	-5.052	1.00	0.00	C
20	ATOM	905	CE2	PHE	A	66155.674	5.910	-5.502	1.00	0.00	C
	ATOM	906	CZ	PHE	A	66155.249	4.662	-5.912	1.00	0.00	C
	ATOM	907	H	PHE	A	66158.419	5.317	0.164	1.00	0.00	H
	ATOM	908	HA	PHE	A	66158.086	3.442	-2.063	1.00	0.00	H
	ATOM	909	1HB	PHE	A	66156.138	4.821	-1.272	1.00	0.00	H
25	ATOM	910	2HB	PHE	A	66157.004	6.254	-1.820	1.00	0.00	H
	ATOM	911	HD1	PHE	A	66155.942	2.918	-3.112	1.00	0.00	H
	ATOM	912	HD2	PHE	A	66156.525	7.056	-3.913	1.00	0.00	H
	ATOM	913	HE1	PHE	A	66155.016	2.608	-5.371	1.00	0.00	H
	ATOM	914	HE2	PHE	A	66155.599	6.754	-6.172	1.00	0.00	H



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	ATOM	915	HZ	PHE A	66154.843	4.527	-6.904	1.00	0.00	H
	ATOM	916	N	ARG A	67160.027	4.296	-3.341	1.00	0.00	N
	ATOM	917	CA	ARG A	67161.100	4.789	-4.198	1.00	0.00	C
	ATOM	918	C	ARG A	67162.157	5.521	-3.378	1.00	0.00	C
5	ATOM	919	O	ARG A	67162.675	6.557	-3.798	1.00	0.00	O
	ATOM	920	CB	ARG A	67160.534	5.719	-5.274	1.00	0.00	C
	ATOM	921	CG	ARG A	67159.459	5.073	-6.133	1.00	0.00	C
	ATOM	922	CD	ARG A	67159.356	5.744	-7.493	1.00	0.00	C
	ATOM	923	NE	ARG A	67159.127	4.777	-8.564	1.00	0.00	N
10	ATOM	924	CZ	ARG A	67159.155	5.084	-9.859	1.00	0.00	C
	ATOM	925	NH1	ARG A	67159.400	6.331	-10.247	1.00	0.00	N
	ATOM	926	NH2	ARG A	67158.938	4.145	-10.769	1.00	0.00	N
	ATOM	927	H	ARG A	67159.851	3.333	-3.302	1.00	0.00	H
	ATOM	928	HA	ARG A	67161.559	3.937	-4.677	1.00	0.00	H
15	ATOM	929	1HB	ARG A	67160.107	6.587	-4.794	1.00	0.00	H
	ATOM	930	2HB	ARG A	67161.340	6.035	-5.920	1.00	0.00	H
	ATOM	931	1HG	ARG A	67159.705	4.031	-6.275	1.00	0.00	H
	ATOM	932	2HG	ARG A	67158.509	5.156	-5.626	1.00	0.00	H
	ATOM	933	1HD	ARG A	67158.534	6.444	-7.473	1.00	0.00	H
20	ATOM	934	2HD	ARG A	67160.275	6.275	-7.690	1.00	0.00	H
	ATOM	935	HE	ARG A	67158.944	3.850	-8.305	1.00	0.00	H
	ATOM	936	1HH1	ARG A	67159.565	7.044	-9.566	1.00	0.00	H
	ATOM	937	2HH1	ARG A	67159.421	6.555	-11.221	1.00	0.00	H
	ATOM	938	1HH2	ARG A	67158.753	3.205	-10.481	1.00	0.00	H
25	ATOM	939	2HH2	ARG A	67158.958	4.375	-11.741	1.00	0.00	H
	ATOM	940	N	GLY A	68162.473	4.977	-2.208	1.00	0.00	N
	ATOM	941	CA	GLY A	68163.468	5.592	-1.349	1.00	0.00	C
	ATOM	942	C	GLY A	68162.935	6.814	-0.627	1.00	0.00	C
	ATOM	943	O	GLY A	68163.691	7.728	-0.297	1.00	0.00	O

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	ATOM	944	H	GLY A	68162.027	4.152	-1.926	1.00	0.00	H
	ATOM	945	1HA	GLY A	68163.792	4.868	-0.617	1.00	0.00	H
	ATOM	946	2HA	GLY A	68164.315	5.885	-1.950	1.00	0.00	H
	ATOM	947	N	THR A	69161.629	6.830	-0.382	1.00	0.00	N
5	ATOM	948	CA	THR A	69160.994	7.950	0.305	1.00	0.00	C
	ATOM	949	C	THR A	69160.067	7.454	1.411	1.00	0.00	C
	ATOM	950	O	THR A	69158.900	7.147	1.164	1.00	0.00	O
	ATOM	951	CB	THR A	69160.209	8.807	-0.689	1.00	0.00	C
	ATOM	952	OG1	THR A	69160.975	9.048	-1.855	1.00	0.00	O
10	ATOM	953	CG2	THR A	69159.796	10.148	-0.125	1.00	0.00	C
	ATOM	954	H	THR A	69161.078	6.073	-0.669	1.00	0.00	H
	ATOM	955	HA	THR A	69161.774	8.551	0.749	1.00	0.00	H
	ATOM	956	HB	THR A	69159.312	8.277	-0.974	1.00	0.00	H
	ATOM	957	HG1	THR A	69160.699	8.445	-2.550	1.00	0.00	H
15	ATOM	958	1HG2	THR A	69160.366	10.356	0.768	1.00	0.00	H
	ATOM	959	2HG2	THR A	69158.743	10.129	0.117	1.00	0.00	H
	ATOM	960	3HG2	THR A	69159.982	10.920	-0.858	1.00	0.00	H
	ATOM	961	N	ARG A	70160.593	7.377	2.629	1.00	0.00	N
	ATOM	962	CA	ARG A	70159.811	6.918	3.771	1.00	0.00	C
20	ATOM	963	C	ARG A	70158.618	7.835	4.018	1.00	0.00	C
	ATOM	964	O	ARG A	70158.749	9.059	4.005	1.00	0.00	O
	ATOM	965	CB	ARG A	70160.689	6.855	5.023	1.00	0.00	C
	ATOM	966	CG	ARG A	70159.948	6.370	6.260	1.00	0.00	C
	ATOM	967	CD	ARG A	70160.069	7.358	7.410	1.00	0.00	C
25	ATOM	968	NE	ARG A	70160.228	6.685	8.697	1.00	0.00	N
	ATOM	969	CZ	ARG A	70161.380	6.178	9.131	1.00	0.00	C
	ATOM	970	NH1	ARG A	70162.475	6.264	8.385	1.00	0.00	N
	ATOM	971	NH2	ARG A	70161.437	5.582	10.315	1.00	0.00	N
	ATOM	972	H	ARG A	70161.529	7.635	2.762	1.00	0.00	H

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	ATOM	973	HA	ARG A	70159.448	5.926	3.546	1.00	0.00	H
	ATOM	974	1HB	ARG A	70161.513	6.181	4.838	1.00	0.00	H
	ATOM	975	2HB	ARG A	70161.079	7.841	5.225	1.00	0.00	H
	ATOM	976	1HG	ARG A	70158.904	6.245	6.016	1.00	0.00	H
5	ATOM	977	2HG	ARG A	70160.363	5.421	6.567	1.00	0.00	H
	ATOM	978	1HD	ARG A	70160.928	7.989	7.237	1.00	0.00	H
	ATOM	979	2HD	ARG A	70159.177	7.966	7.440	1.00	0.00	H
	ATOM	980	HE	ARG A	70159.436	6.606	9.267	1.00	0.00	H
	ATOM	981	1HH1	ARG A	70162.438	6.711	7.492	1.00	0.00	H
10	ATOM	982	2HH1	ARG A	70163.337	5.881	8.717	1.00	0.00	H
	ATOM	983	1HH2	ARG A	70160.615	5.515	10.880	1.00	0.00	H
	ATOM	984	2HH2	ARG A	70162.303	5.202	10.641	1.00	0.00	H
	ATOM	985	N	TYR A	71157.454	7.233	4.243	1.00	0.00	N
	ATOM	986	CA	TYR A	71156.236	7.995	4.494	1.00	0.00	C
15	ATOM	987	C	TYR A	71155.691	7.705	5.889	1.00	0.00	C
	ATOM	988	O	TYR A	71155.213	8.606	6.578	1.00	0.00	O
	ATOM	989	CB	TYR A	71155.177	7.661	3.442	1.00	0.00	C
	ATOM	990	CG	TYR A	71155.365	8.402	2.137	1.00	0.00	C
	ATOM	991	CD1	TYR A	71155.369	7.722	0.925	1.00	0.00	C
20	ATOM	992	CD2	TYR A	71155.540	9.780	2.117	1.00	0.00	C
	ATOM	993	CE1	TYR A	71155.542	8.396	-0.270	1.00	0.00	C
	ATOM	994	CE2	TYR A	71155.713	10.460	0.926	1.00	0.00	C
	ATOM	995	CZ	TYR A	71155.713	9.764	-0.263	1.00	0.00	C
	ATOM	996	OH	TYR A	71155.885	10.437	-1.451	1.00	0.00	O
25	ATOM	997	H	TYR A	71157.415	6.255	4.240	1.00	0.00	H
	ATOM	998	HA	TYR A	71156.481	9.044	4.426	1.00	0.00	H
	ATOM	999	1HB	TYR A	71155.209	6.604	3.230	1.00	0.00	H
	ATOM	1000	2HB	TYR A	71154.202	7.916	3.831	1.00	0.00	H
	ATOM	1001	HD1	TYR A	71155.235	6.651	0.924	1.00	0.00	H

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	ATOM	1002	HD2	TYR	A	71155.541	10.323	3.050	1.00	0.00	H
	ATOM	1003	HE1	TYR	A	71155.541	7.849	-1.202	1.00	0.00	H
	ATOM	1004	HE2	TYR	A	71155.847	11.532	0.931	1.00	0.00	H
	ATOM	1005	HH	TYR	A	71155.181	10.199	-2.060	1.00	0.00	H
5	ATOM	1006	N	PHE	A	72155.770	6.445	6.299	1.00	0.00	N
	ATOM	1007	CA	PHE	A	72155.285	6.036	7.613	1.00	0.00	C
	ATOM	1008	C	PHE	A	72156.210	4.994	8.234	1.00	0.00	C
	ATOM	1009	O	PHE	A	72157.229	4.626	7.649	1.00	0.00	O
	ATOM	1010	CB	PHE	A	72153.866	5.476	7.505	1.00	0.00	C
10	ATOM	1011	CG	PHE	A	72153.694	4.488	6.386	1.00	0.00	C
	ATOM	1012	CD1	PHE	A	72153.520	4.923	5.082	1.00	0.00	C
	ATOM	1013	CD2	PHE	A	72153.705	3.126	6.639	1.00	0.00	C
	ATOM	1014	CE1	PHE	A	72153.360	4.017	4.050	1.00	0.00	C
	ATOM	1015	CE2	PHE	A	72153.546	2.215	5.612	1.00	0.00	C
15	ATOM	1016	CZ	PHE	A	72153.374	2.662	4.316	1.00	0.00	C
	ATOM	1017	H	PHE	A	72156.163	5.772	5.705	1.00	0.00	H
	ATOM	1018	HA	PHE	A	72155.270	6.910	8.247	1.00	0.00	H
	ATOM	1019	1HB	PHE	A	72153.612	4.977	8.429	1.00	0.00	H
	ATOM	1020	2HB	PHE	A	72153.176	6.290	7.341	1.00	0.00	H
20	ATOM	1021	HD1	PHE	A	72153.509	5.983	4.874	1.00	0.00	H
	ATOM	1022	HD2	PHE	A	72153.839	2.776	7.652	1.00	0.00	H
	ATOM	1023	HE1	PHE	A	72153.225	4.369	3.039	1.00	0.00	H
	ATOM	1024	HE2	PHE	A	72153.557	1.156	5.822	1.00	0.00	H
	ATOM	1025	HZ	PHE	A	72153.250	1.952	3.511	1.00	0.00	H
25	ATOM	1026	N	THR	A	73155.849	4.521	9.422	1.00	0.00	N
	ATOM	1027	CA	THR	A	73156.646	3.521	10.122	1.00	0.00	C
	ATOM	1028	C	THR	A	73155.862	2.224	10.297	1.00	0.00	C
	ATOM	1029	O	THR	A	73154.872	2.180	11.028	1.00	0.00	O
	ATOM	1030	CB	THR	A	73157.085	4.053	11.487	1.00	0.00	C

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	ATOM	1031	OG1	THR	A	73157.756	3.047	12.225	1.00	0.00	O
	ATOM	1032	CG2	THR	A	73155.934	4.552	12.333	1.00	0.00	C
	ATOM	1033	H	THR	A	73155.026	4.853	9.839	1.00	0.00	H
	ATOM	1034	HA	THR	A	73157.523	3.320	9.526	1.00	0.00	H
5	ATOM	1035	HB	THR	A	73157.767	4.877	11.339	1.00	0.00	H
	ATOM	1036	HG1	THR	A	73158.668	3.311	12.370	1.00	0.00	H
	ATOM	1037	1HG2	THR	A	73156.046	5.613	12.504	1.00	0.00	H
	ATOM	1038	2HG2	THR	A	73155.932	4.033	13.281	1.00	0.00	H
	ATOM	1039	3HG2	THR	A	73155.002	4.368	11.819	1.00	0.00	H
10	ATOM	1040	N	CYS	A	74156.311	1.172	9.622	1.00	0.00	N
	ATOM	1041	CA	CYS	A	74155.651	-0.126	9.704	1.00	0.00	C
	ATOM	1042	C	CYS	A	74156.672	-1.259	9.654	1.00	0.00	C
	ATOM	1043	O	CYS	A	74157.867	-1.025	9.475	1.00	0.00	O
	ATOM	1044	CB	CYS	A	74154.644	-0.282	8.562	1.00	0.00	C
15	ATOM	1045	SG	CYS	A	74152.993	0.348	8.944	1.00	0.00	S
	ATOM	1046	H	CYS	A	74157.105	1.270	9.056	1.00	0.00	H
	ATOM	1047	HA	CYS	A	74155.125	-0.172	10.644	1.00	0.00	H
	ATOM	1048	1HB	CYS	A	74155.007	0.252	7.697	1.00	0.00	H
	ATOM	1049	2HB	CYS	A	74154.548	-1.330	8.318	1.00	0.00	H
20	ATOM	1050	HG	CYS	A	74153.037	0.799	9.791	1.00	0.00	H
	ATOM	1051	N	ALA	A	75156.192	-2.488	9.816	1.00	0.00	N
	ATOM	1052	CA	ALA	A	75157.063	-3.657	9.791	1.00	0.00	C
	ATOM	1053	C	ALA	A	75157.708	-3.832	8.420	1.00	0.00	C
	ATOM	1054	O	ALA	A	75157.169	-3.385	7.408	1.00	0.00	O
25	ATOM	1055	CB	ALA	A	75156.281	-4.906	10.171	1.00	0.00	C
	ATOM	1056	H	ALA	A	75155.231	-2.611	9.956	1.00	0.00	H
	ATOM	1057	HA	ALA	A	75157.840	-3.510	10.527	1.00	0.00	H
	ATOM	1058	1HB	ALA	A	75155.259	-4.806	9.836	1.00	0.00	H
	ATOM	1059	2HB	ALA	A	75156.298	-5.028	11.244	1.00	0.00	H

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	ATOM	1060	3HB	ALA A	75156.730	-5.769	9.703	1.00	0.00	H
	ATOM	1061	N	LEU A	76158.864	-4.486	8.395	1.00	0.00	N
	ATOM	1062	CA	LEU A	76159.583	-4.720	7.148	1.00	0.00	C
	ATOM	1063	C	LEU A	76158.884	-5.784	6.309	1.00	0.00	C
5	ATOM	1064	O	LEU A	76158.277	-6.711	6.844	1.00	0.00	O
	ATOM	1065	CB	LEU A	76161.023	-5.147	7.437	1.00	0.00	C
	ATOM	1066	CG	LEU A	76161.915	-4.055	8.031	1.00	0.00	C
	ATOM	1067	CD1	LEU A	76161.985	-4.187	9.545	1.00	0.00	C
	ATOM	1068	CD2	LEU A	76163.309	-4.116	7.425	1.00	0.00	C
10	ATOM	1069	H	LEU A	76159.244	-4.819	9.235	1.00	0.00	H
	ATOM	1070	HA	LEU A	76159.597	-3.794	6.595	1.00	0.00	H
	ATOM	1071	1HB	LEU A	76160.998	-5.979	8.127	1.00	0.00	H
	ATOM	1072	2HB	LEU A	76161.469	-5.483	6.513	1.00	0.00	H
	ATOM	1073	HG	LEU A	76161.491	-3.088	7.800	1.00	0.00	H
15	ATOM	1074	1HD1	LEU A	76161.129	-4.740	9.897	1.00	0.00	H
	ATOM	1075	2HD1	LEU A	76161.987	-3.203	9.991	1.00	0.00	H
	ATOM	1076	3HD1	LEU A	76162.890	-4.708	9.819	1.00	0.00	H
	ATOM	1077	1HD2	LEU A	76163.238	-4.403	6.386	1.00	0.00	H
	ATOM	1078	2HD2	LEU A	76163.903	-4.844	7.959	1.00	0.00	H
20	ATOM	1079	3HD2	LEU A	76163.778	-3.146	7.499	1.00	0.00	H
	ATOM	1080	N	LYS A	77158.974	-5.644	4.990	1.00	0.00	N
	ATOM	1081	CA	LYS A	77158.350	-6.593	4.075	1.00	0.00	C
	ATOM	1082	C	LYS A	77156.836	-6.610	4.257	1.00	0.00	C
	ATOM	1083	O	LYS A	77156.193	-7.648	4.097	1.00	0.00	O
25	ATOM	1084	CB	LYS A	77158.918	-7.997	4.297	1.00	0.00	C
	ATOM	1085	CG	LYS A	77160.436	-8.038	4.345	1.00	0.00	C
	ATOM	1086	CD	LYS A	77161.044	-7.809	2.971	1.00	0.00	C
	ATOM	1087	CE	LYS A	77162.497	-7.372	3.069	1.00	0.00	C
	ATOM	1088	NZ	LYS A	77163.335	-7.988	2.004	1.00	0.00	N

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	ATOM	1089	H	LYS A	77159.473	-4.884	4.623	1.00	0.00	H
	ATOM	1090	HA	LYS A	77158.575	-6.278	3.067	1.00	0.00	H
	ATOM	1091	1HB	LYS A	77158.538	-8.382	5.231	1.00	0.00	H
	ATOM	1092	2HB	LYS A	77158.587	-8.637	3.492	1.00	0.00	H
5	ATOM	1093	1HG	LYS A	77160.787	-7.268	5.015	1.00	0.00	H
	ATOM	1094	2HG	LYS A	77160.749	-9.005	4.710	1.00	0.00	H
	ATOM	1095	1HD	LYS A	77160.993	-8.729	2.407	1.00	0.00	H
	ATOM	1096	2HD	LYS A	77160.480	-7.041	2.462	1.00	0.00	H
	ATOM	1097	1HE	LYS A	77162.544	-6.298	2.975	1.00	0.00	H
10	ATOM	1098	2HE	LYS A	77162.883	-7.667	4.034	1.00	0.00	H
	ATOM	1099	1HZ	LYS A	77164.058	-7.312	1.683	1.00	0.00	H
	ATOM	1100	2HZ	LYS A	77162.743	-8.255	1.192	1.00	0.00	H
	ATOM	1101	3HZ	LYS A	77163.809	-8.840	2.368	1.00	0.00	H
	ATOM	1102	N	LYS A	78156.273	-5.453	4.593	1.00	0.00	N
15	ATOM	1103	CA	LYS A	78154.833	-5.336	4.796	1.00	0.00	C
	ATOM	1104	C	LYS A	78154.337	-3.953	4.387	1.00	0.00	C
	ATOM	1105	O	LYS A	78153.462	-3.379	5.035	1.00	0.00	O
	ATOM	1106	CB	LYS A	78154.482	-5.606	6.260	1.00	0.00	C
	ATOM	1107	CG	LYS A	78154.975	-6.951	6.768	1.00	0.00	C
20	ATOM	1108	CD	LYS A	78154.548	-7.196	8.206	1.00	0.00	C
	ATOM	1109	CE	LYS A	78153.329	-8.101	8.279	1.00	0.00	C
	ATOM	1110	NZ	LYS A	78152.528	-7.854	9.510	1.00	0.00	N
	ATOM	1111	H	LYS A	78156.838	-4.661	4.705	1.00	0.00	H
	ATOM	1112	HA	LYS A	78154.350	-6.076	4.177	1.00	0.00	H
25	ATOM	1113	1HB	LYS A	78154.920	-4.831	6.873	1.00	0.00	H
	ATOM	1114	2HB	LYS A	78153.408	-5.575	6.372	1.00	0.00	H
	ATOM	1115	1HG	LYS A	78154.567	-7.732	6.143	1.00	0.00	H
	ATOM	1116	2HG	LYS A	78156.054	-6.971	6.712	1.00	0.00	H
	ATOM	1117	1HD	LYS A	78155.363	-7.662	8.738	1.00	0.00	H

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	ATOM	1118	2HD	LYS A	78154.310	-6.247	8.667	1.00	0.00	H
	ATOM	1119	1HE	LYS A	78152.709	-7.919	7.414	1.00	0.00	H
	ATOM	1120	2HE	LYS A	78153.660	-9.129	8.274	1.00	0.00	H
	ATOM	1121	1HZ	LYS A	78151.535	-8.120	9.347	1.00	0.00	H
5	ATOM	1122	2HZ	LYS A	78152.568	-6.849	9.768	1.00	0.00	H
	ATOM	1123	3HZ	LYS A	78152.903	-8.419	10.299	1.00	0.00	H
	ATOM	1124	N	ALA A	79154.903	-3.423	3.306	1.00	0.00	N
	ATOM	1125	CA	ALA A	79154.517	-2.107	2.811	1.00	0.00	C
	ATOM	1126	C	ALA A	79154.453	-2.093	1.287	1.00	0.00	C
10	ATOM	1127	O	ALA A	79155.479	-1.991	0.614	1.00	0.00	O
	ATOM	1128	CB	ALA A	79155.491	-1.050	3.310	1.00	0.00	C
	ATOM	1129	H	ALA A	79155.595	-3.929	2.832	1.00	0.00	H
	ATOM	1130	HA	ALA A	79153.538	-1.876	3.204	1.00	0.00	H
	ATOM	1131	1HB	ALA A	79154.952	-0.139	3.526	1.00	0.00	H
15	ATOM	1132	2HB	ALA A	79156.234	-0.858	2.551	1.00	0.00	H
	ATOM	1133	3HB	ALA A	79155.976	-1.402	4.208	1.00	0.00	H
	ATOM	1134	N	LEU A	80153.242	-2.196	0.749	1.00	0.00	N
	ATOM	1135	CA	LEU A	80153.045	-2.195	-0.696	1.00	0.00	C
	ATOM	1136	C	LEU A	80152.259	-0.964	-1.137	1.00	0.00	C
20	ATOM	1137	O	LEU A	80151.060	-0.857	-0.880	1.00	0.00	O
	ATOM	1138	CB	LEU A	80152.312	-3.465	-1.132	1.00	0.00	C
	ATOM	1139	CG	LEU A	80152.003	-3.553	-2.627	1.00	0.00	C
	ATOM	1140	CD1	LEU A	80153.212	-4.072	-3.391	1.00	0.00	C
	ATOM	1141	CD2	LEU A	80150.795	-4.445	-2.870	1.00	0.00	C
25	ATOM	1142	H	LEU A	80152.462	-2.275	1.338	1.00	0.00	H
	ATOM	1143	HA	LEU A	80154.018	-2.173	-1.164	1.00	0.00	H
	ATOM	1144	1HB	LEU A	80152.919	-4.317	-0.859	1.00	0.00	H
	ATOM	1145	2HB	LEU A	80151.379	-3.521	-0.592	1.00	0.00	H
	ATOM	1146	HG	LEU A	80151.773	-2.566	-3.000	1.00	0.00	H



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	ATOM	1147	1HD1	LEU	A	80154.113	-3.837	-2.843	1.00	0.00	H
	ATOM	1148	2HD1	LEU	A	80153.251	-3.604	-4.364	1.00	0.00	H
	ATOM	1149	3HD1	LEU	A	80153.131	-5.142	-3.509	1.00	0.00	H
	ATOM	1150	1HD2	LEU	A	80149.892	-3.857	-2.792	1.00	0.00	H
5	ATOM	1151	2HD2	LEU	A	80150.775	-5.234	-2.131	1.00	0.00	H
	ATOM	1152	3HD2	LEU	A	80150.858	-4.877	-3.857	1.00	0.00	H
	ATOM	1153	N	PHE	A	81152.943	-0.039	-1.802	1.00	0.00	N
	ATOM	1154	CA	PHE	A	81152.309	1.184	-2.279	1.00	0.00	C
	ATOM	1155	C	PHE	A	81151.493	0.917	-3.540	1.00	0.00	C
10	ATOM	1156	O	PHE	A	81151.877	0.102	-4.379	1.00	0.00	O
	ATOM	1157	CB	PHE	A	81153.364	2.255	-2.559	1.00	0.00	C
	ATOM	1158	CG	PHE	A	81154.090	2.718	-1.328	1.00	0.00	C
	ATOM	1159	CD1	PHE	A	81155.218	2.048	-0.880	1.00	0.00	C
	ATOM	1160	CD2	PHE	A	81153.645	3.822	-0.619	1.00	0.00	C
15	ATOM	1161	CE1	PHE	A	81155.888	2.471	0.252	1.00	0.00	C
	ATOM	1162	CE2	PHE	A	81154.311	4.250	0.515	1.00	0.00	C
	ATOM	1163	CZ	PHE	A	81155.435	3.573	0.950	1.00	0.00	C
	ATOM	1164	H	PHE	A	81153.896	-0.182	-1.977	1.00	0.00	H
	ATOM	1165	HA	PHE	A	81151.646	1.538	-1.505	1.00	0.00	H
20	ATOM	1166	1HB	PHE	A	81154.096	1.859	-3.247	1.00	0.00	H
	ATOM	1167	2HB	PHE	A	81152.885	3.115	-3.006	1.00	0.00	H
	ATOM	1168	HD1	PHE	A	81155.574	1.187	-1.426	1.00	0.00	H
	ATOM	1169	HD2	PHE	A	81152.767	4.351	-0.958	1.00	0.00	H
	ATOM	1170	HE1	PHE	A	81156.766	1.940	0.591	1.00	0.00	H
25	ATOM	1171	HE2	PHE	A	81153.954	5.111	1.059	1.00	0.00	H
	ATOM	1172	HZ	PHE	A	81155.957	3.906	1.835	1.00	0.00	H
	ATOM	1173	N	VAL	A	82150.364	1.608	-3.667	1.00	0.00	N
	ATOM	1174	CA	VAL	A	82149.494	1.444	-4.825	1.00	0.00	C
	ATOM	1175	C	VAL	A	82148.612	2.671	-5.027	1.00	0.00	C

	ATOM	1176	O	VAL A	82148.497	3.519	-4.142	1.00	0.00	O
	ATOM	1177	CB	VAL A	82148.598	0.200	-4.684	1.00	0.00	C
	ATOM	1178	CG1	VAL A	82149.428	-1.071	-4.779	1.00	0.00	C
	ATOM	1179	CG2	VAL A	82147.827	0.243	-3.373	1.00	0.00	C
5	ATOM	1180	H	VAL A	82150.111	2.242	-2.965	1.00	0.00	H
	ATOM	1181	HA	VAL A	82150.120	1.314	-5.697	1.00	0.00	H
	ATOM	1182	HB	VAL A	82147.885	0.200	-5.496	1.00	0.00	H
	ATOM	1183	1HG1	VAL A	82150.036	-1.038	-5.671	1.00	0.00	H
	ATOM	1184	2HG1	VAL A	82148.771	-1.927	-4.824	1.00	0.00	H
10	ATOM	1185	3HG1	VAL A	82150.066	-1.150	-3.912	1.00	0.00	H
	ATOM	1186	1HG2	VAL A	82148.388	0.808	-2.643	1.00	0.00	H
	ATOM	1187	2HG2	VAL A	82147.675	-0.762	-3.011	1.00	0.00	H
	ATOM	1188	3HG2	VAL A	82146.869	0.716	-3.534	1.00	0.00	H
	ATOM	1189	N	LYS A	83147.991	2.760	-6.199	1.00	0.00	N
15	ATOM	1190	CA	LYS A	83147.118	3.884	-6.518	1.00	0.00	C
	ATOM	1191	C	LYS A	83145.833	3.826	-5.700	1.00	0.00	C
	ATOM	1192	O	LYS A	83145.108	2.831	-5.732	1.00	0.00	O
	ATOM	1193	CB	LYS A	83146.786	3.890	-8.012	1.00	0.00	C
	ATOM	1194	CG	LYS A	83148.004	4.058	-8.904	1.00	0.00	C
20	ATOM	1195	CD	LYS A	83147.623	4.036	-10.376	1.00	0.00	C
	ATOM	1196	CE	LYS A	83148.408	5.068	-11.171	1.00	0.00	C
	ATOM	1197	NZ	LYS A	83148.692	4.605	-12.557	1.00	0.00	N
	ATOM	1198	H	LYS A	83148.122	2.052	-6.864	1.00	0.00	H
	ATOM	1199	HA	LYS A	83147.645	4.793	-6.272	1.00	0.00	H
25	ATOM	1200	1HB	LYS A	83146.305	2.957	-8.265	1.00	0.00	H
	ATOM	1201	2HB	LYS A	83146.104	4.703	-8.214	1.00	0.00	H
	ATOM	1202	1HG	LYS A	83148.476	5.002	-8.680	1.00	0.00	H
	ATOM	1203	2HG	LYS A	83148.695	3.251	-8.709	1.00	0.00	H
	ATOM	1204	1HD	LYS A	83147.829	3.055	-10.778	1.00	0.00	H

	ATOM	1205	2HD	LYS A	83146.568	4.250	-10.469	1.00	0.00	H
	ATOM	1206	1HE	LYS A	83147.833	5.980	-11.217	1.00	0.00	H
	ATOM	1207	2HE	LYS A	83149.343	5.258	-10.664	1.00	0.00	H
	ATOM	1208	1HZ	LYS A	83147.835	4.193	-12.979	1.00	0.00	H
5	ATOM	1209	2HZ	LYS A	83149.440	3.882	-12.546	1.00	0.00	H
	ATOM	1210	3HZ	LYS A	83149.006	5.404	-13.143	1.00	0.00	H
	ATOM	1211	N	LEU A	84145.559	4.900	-4.967	1.00	0.00	N
	ATOM	1212	CA	LEU A	84144.362	4.977	-4.138	1.00	0.00	C
	ATOM	1213	C	LEU A	84143.103	4.813	-4.985	1.00	0.00	C
10	ATOM	1214	O	LEU A	84142.124	4.210	-4.547	1.00	0.00	O
	ATOM	1215	CB	LEU A	84144.324	6.314	-3.395	1.00	0.00	C
	ATOM	1216	CG	LEU A	84143.055	6.569	-2.580	1.00	0.00	C
	ATOM	1217	CD1	LEU A	84143.085	5.777	-1.283	1.00	0.00	C
	ATOM	1218	CD2	LEU A	84142.896	8.055	-2.295	1.00	0.00	C
15	ATOM	1219	H	LEU A	84146.177	5.660	-4.986	1.00	0.00	H
	ATOM	1220	HA	LEU A	84144.405	4.175	-3.419	1.00	0.00	H
	ATOM	1221	1HB	LEU A	84145.170	6.352	-2.725	1.00	0.00	H
	ATOM	1222	2HB	LEU A	84144.426	7.107	-4.120	1.00	0.00	H
	ATOM	1223	HG	LEU A	84142.197	6.243	-3.150	1.00	0.00	H
20	ATOM	1224	1HD1	LEU A	84142.799	4.753	-1.479	1.00	0.00	H
	ATOM	1225	2HD1	LEU A	84142.394	6.214	-0.577	1.00	0.00	H
	ATOM	1226	3HD1	LEU A	84144.083	5.798	-0.870	1.00	0.00	H
	ATOM	1227	1HD2	LEU A	84143.784	8.425	-1.805	1.00	0.00	H
	ATOM	1228	2HD2	LEU A	84142.040	8.209	-1.654	1.00	0.00	H
25	ATOM	1229	3HD2	LEU A	84142.750	8.586	-3.224	1.00	0.00	H
	ATOM	1230	N	LYS A	85143.138	5.352	-6.199	1.00	0.00	N
	ATOM	1231	CA	LYS A	85141.999	5.264	-7.106	1.00	0.00	C
	ATOM	1232	C	LYS A	85141.717	3.814	-7.488	1.00	0.00	C
	ATOM	1233	O	LYS A	85140.589	3.461	-7.832	1.00	0.00	O

	ATOM	1234	CB	LYS A	85142.259	6.093	-8.365	1.00	0.00	C
	ATOM	1235	CG	LYS A	85143.453	5.615	-9.173	1.00	0.00	C
	ATOM	1236	CD	LYS A	85143.781	6.575	-10.306	1.00	0.00	C
	ATOM	1237	CE	LYS A	85144.955	7.474	-9.953	1.00	0.00	C
5	ATOM	1238	NZ	LYS A	85144.679	8.301	-8.746	1.00	0.00	N
	ATOM	1239	H	LYS A	85143.948	5.819	-6.491	1.00	0.00	H
	ATOM	1240	HA	LYS A	85141.137	5.662	-6.595	1.00	0.00	H
	ATOM	1241	1HB	LYS A	85141.384	6.050	-8.997	1.00	0.00	H
	ATOM	1242	2HB	LYS A	85142.433	7.118	-8.077	1.00	0.00	H
10	ATOM	1243	1HG	LYS A	85144.310	5.538	-8.521	1.00	0.00	H
	ATOM	1244	2HG	LYS A	85143.229	4.643	-9.590	1.00	0.00	H
	ATOM	1245	1HD	LYS A	85144.031	6.004	-11.188	1.00	0.00	H
	ATOM	1246	2HD	LYS A	85142.914	7.189	-10.506	1.00	0.00	H
	ATOM	1247	1HE	LYS A	85145.821	6.858	-9.766	1.00	0.00	H
15	ATOM	1248	2HE	LYS A	85145.154	8.129	-10.789	1.00	0.00	H
	ATOM	1249	1HZ	LYS A	85145.546	8.784	-8.437	1.00	0.00	H
	ATOM	1250	2HZ	LYS A	85144.337	7.698	-7.970	1.00	0.00	H
	ATOM	1251	3HZ	LYS A	85143.953	9.015	-8.959	1.00	0.00	H
	ATOM	1252	N	SER A	86142.750	2.976	-7.427	1.00	0.00	N
20	ATOM	1253	CA	SER A	86142.608	1.565	-7.767	1.00	0.00	C
	ATOM	1254	C	SER A	86142.494	0.710	-6.509	1.00	0.00	C
	ATOM	1255	O	SER A	86142.923	-0.444	-6.490	1.00	0.00	O
	ATOM	1256	CB	SER A	86143.800	1.100	-8.607	1.00	0.00	C
	ATOM	1257	OG	SER A	86143.657	1.500	-9.959	1.00	0.00	O
25	ATOM	1258	H	SER A	86143.625	3.314	-7.147	1.00	0.00	H
	ATOM	1259	HA	SER A	86141.704	1.453	-8.347	1.00	0.00	H
	ATOM	1260	1HB	SER A	86144.707	1.531	-8.211	1.00	0.00	H
	ATOM	1261	2HB	SER A	86143.866	0.023	-8.568	1.00	0.00	H
	ATOM	1262	HG	SER A	86143.468	2.440	-9.997	1.00	0.00	H

	ATOM	1263	N	CYS A	87141.913	1.284	-5.460	1.00	0.00	N
	ATOM	1264	CA	CYS A	87141.742	0.575	-4.198	1.00	0.00	C
	ATOM	1265	C	CYS A	87140.267	0.304	-3.923	1.00	0.00	C
	ATOM	1266	O	CYS A	87139.397	1.064	-4.346	1.00	0.00	O
5	ATOM	1267	CB	CYS A	87142.347	1.382	-3.048	1.00	0.00	C
	ATOM	1268	SG	CYS A	87144.153	1.474	-3.081	1.00	0.00	S
	ATOM	1269	H	CYS A	87141.592	2.207	-5.537	1.00	0.00	H
	ATOM	1270	HA	CYS A	87142.262	-0.369	-4.274	1.00	0.00	H
	ATOM	1271	1HB	CYS A	87141.968	2.393	-3.089	1.00	0.00	H
10	ATOM	1272	2HB	CYS A	87142.057	0.933	-2.110	1.00	0.00	H
	ATOM	1273	HG	CYS A	87144.471	1.371	-2.181	1.00	0.00	H
	ATOM	1274	N	ARG A	88139.992	-0.786	-3.212	1.00	0.00	N
	ATOM	1275	CA	ARG A	88138.620	-1.156	-2.882	1.00	0.00	C
	ATOM	1276	C	ARG A	88138.440	-1.289	-1.372	1.00	0.00	C
15	ATOM	1277	O	ARG A	88139.327	-1.781	-0.674	1.00	0.00	O
	ATOM	1278	CB	ARG A	88138.247	-2.472	-3.569	1.00	0.00	C
	ATOM	1279	CG	ARG A	88137.641	-2.286	-4.950	1.00	0.00	C
	ATOM	1280	CD	ARG A	88136.123	-2.374	-4.909	1.00	0.00	C
	ATOM	1281	NE	ARG A	88135.530	-2.222	-6.236	1.00	0.00	N
20	ATOM	1282	CZ	ARG A	88135.476	-1.068	-6.897	1.00	0.00	C
	ATOM	1283	NH1	ARG A	88135.977	0.037	-6.359	1.00	0.00	N
	ATOM	1284	NH2	ARG A	88134.919	-1.019	-8.099	1.00	0.00	N
	ATOM	1285	H	ARG A	88140.729	-1.354	-2.903	1.00	0.00	H
	ATOM	1286	HA	ARG A	88137.971	-0.374	-3.246	1.00	0.00	H
25	ATOM	1287	1HB	ARG A	88139.136	-3.077	-3.669	1.00	0.00	H
	ATOM	1288	2HB	ARG A	88137.533	-2.997	-2.953	1.00	0.00	H
	ATOM	1289	1HG	ARG A	88137.924	-1.316	-5.330	1.00	0.00	H
	ATOM	1290	2HG	ARG A	88138.019	-3.056	-5.606	1.00	0.00	H
	ATOM	1291	1HD	ARG A	88135.842	-3.335	-4.507	1.00	0.00	H

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	ATOM	1292	2HD	ARG A	88135.749	-1.591	-4.265	1.00	0.00	H
	ATOM	1293	HE	ARG A	88135.152	-3.023	-6.656	1.00	0.00	H
	ATOM	1294	1HH1	ARG A	88136.399	0.007	-5.453	1.00	0.00	H
	ATOM	1295	2HH1	ARG A	88135.934	0.901	-6.861	1.00	0.00	H
5	ATOM	1296	1HH2	ARG A	88134.539	-1.848	-8.509	1.00	0.00	H
	ATOM	1297	2HH2	ARG A	88134.878	-0.152	-8.596	1.00	0.00	H
	ATOM	1298	N	PRO A	89137.282	-0.854	-0.841	1.00	0.00	N
	ATOM	1299	CA	PRO A	89136.995	-0.931	0.595	1.00	0.00	C
	ATOM	1300	C	PRO A	89137.153	-2.347	1.140	1.00	0.00	C
10	ATOM	1301	O	PRO A	89136.565	-3.293	0.616	1.00	0.00	O
	ATOM	1302	CB	PRO A	89135.534	-0.482	0.696	1.00	0.00	C
	ATOM	1303	CG	PRO A	89135.303	0.344	-0.521	1.00	0.00	C
	ATOM	1304	CD	PRO A	89136.166	-0.254	-1.596	1.00	0.00	C
	ATOM	1305	HA	PRO A	89137.622	-0.257	1.160	1.00	0.00	H
15	ATOM	1306	1HB	PRO A	89134.889	-1.349	0.715	1.00	0.00	H
	ATOM	1307	2HB	PRO A	89135.394	0.097	1.597	1.00	0.00	H
	ATOM	1308	1HG	PRO A	89134.262	0.297	-0.805	1.00	0.00	H
	ATOM	1309	2HG	PRO A	89135.596	1.367	-0.332	1.00	0.00	H
	ATOM	1310	1HD	PRO A	89135.619	-1.009	-2.142	1.00	0.00	H
20	ATOM	1311	2HD	PRO A	89136.522	0.515	-2.265	1.00	0.00	H
	ATOM	1312	N	ASP A	90137.949	-2.484	2.196	1.00	0.00	N
	ATOM	1313	CA	ASP A	90138.183	-3.784	2.811	1.00	0.00	C
	ATOM	1314	C	ASP A	90137.359	-3.937	4.086	1.00	0.00	C
	ATOM	1315	O	ASP A	90137.749	-3.455	5.149	1.00	0.00	O
25	ATOM	1316	CB	ASP A	90139.668	-3.964	3.127	1.00	0.00	C
	ATOM	1317	CG	ASP A	90140.101	-5.416	3.066	1.00	0.00	C
	ATOM	1318	OD1	ASP A	90139.932	-6.041	1.997	1.00	0.00	O
	ATOM	1319	OD2	ASP A	90140.609	-5.928	4.085	1.00	0.00	O
	ATOM	1320	H	ASP A	90138.389	-1.691	2.569	1.00	0.00	H

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	ATOM	1321	HA	ASP	A	90137.878	-4.544	2.107	1.00	0.00	H
	ATOM	1322	1HB	ASP	A	90140.253	-3.403	2.413	1.00	0.00	H
	ATOM	1323	2HB	ASP	A	90139.866	-3.589	4.120	1.00	0.00	H
	ATOM	1324	N	SER	A	91136.220	-4.611	3.972	1.00	0.00	N
5	ATOM	1325	CA	SER	A	91135.343	-4.826	5.118	1.00	0.00	C
	ATOM	1326	C	SER	A	91135.563	-6.209	5.723	1.00	0.00	C
	ATOM	1327	O	SER	A	91134.646	-6.803	6.289	1.00	0.00	O
	ATOM	1328	CB	SER	A	91133.879	-4.667	4.702	1.00	0.00	C
	ATOM	1329	OG	SER	A	91133.091	-4.194	5.781	1.00	0.00	O
10	ATOM	1330	H	SER	A	91135.962	-4.972	3.098	1.00	0.00	H
	ATOM	1331	HA	SER	A	91135.579	-4.079	5.859	1.00	0.00	H
	ATOM	1332	1HB	SER	A	91133.812	-3.962	3.887	1.00	0.00	H
	ATOM	1333	2HB	SER	A	91133.492	-5.624	4.383	1.00	0.00	H
	ATOM	1334	HG	SER	A	91132.300	-4.732	5.861	1.00	0.00	H
15	ATOM	1335	N	ARG	A	92136.787	-6.715	5.600	1.00	0.00	N
	ATOM	1336	CA	ARG	A	92137.126	-8.028	6.137	1.00	0.00	C
	ATOM	1337	C	ARG	A	92137.058	-8.025	7.660	1.00	0.00	C
	ATOM	1338	O	ARG	A	92136.757	-9.045	8.281	1.00	0.00	O
	ATOM	1339	CB	ARG	A	92138.525	-8.444	5.677	1.00	0.00	C
20	ATOM	1340	CG	ARG	A	92138.648	-8.601	4.171	1.00	0.00	C
	ATOM	1341	CD	ARG	A	92137.984	-9.879	3.686	1.00	0.00	C
	ATOM	1342	NE	ARG	A	92136.678	-9.622	3.082	1.00	0.00	N
	ATOM	1343	CZ	ARG	A	92136.048	-10.481	2.285	1.00	0.00	C
	ATOM	1344	NH1	ARG	A	92136.599	-11.654	1.994	1.00	0.00	N
25	ATOM	1345	NH2	ARG	A	92134.864	-10.169	1.777	1.00	0.00	N
	ATOM	1346	H	ARG	A	92137.477	-6.195	5.139	1.00	0.00	H
	ATOM	1347	HA	ARG	A	92136.406	-8.738	5.757	1.00	0.00	H
	ATOM	1348	1HB	ARG	A	92139.234	-7.696	5.999	1.00	0.00	H
	ATOM	1349	2HB	ARG	A	92138.776	-9.388	6.138	1.00	0.00	H

	ATOM	1350	1HG	ARG	A	92138.176	-7.758	3.690	1.00	0.00	H
	ATOM	1351	2HG	ARG	A	92139.696	-8.627	3.906	1.00	0.00	H
	ATOM	1352	1HD	ARG	A	92138.623	-10.346	2.952	1.00	0.00	H
	ATOM	1353	2HD	ARG	A	92137.856	-10.545	4.527	1.00	0.00	H
5	ATOM	1354	HE	ARG	A	92136.248	-8.764	3.281	1.00	0.00	H
	ATOM	1355	1HH1	ARG	A	92137.492	-11.896	2.373	1.00	0.00	H
	ATOM	1356	2HH1	ARG	A	92136.120	-12.295	1.395	1.00	0.00	H
	ATOM	1357	1HH2	ARG	A	92134.444	-9.288	1.993	1.00	0.00	H
	ATOM	1358	2HH2	ARG	A	92134.390	-10.815	1.177	1.00	0.00	H
10	ATOM	1359	N	PHE	A	93137.340	-6.872	8.258	1.00	0.00	N
	ATOM	1360	CA	PHE	A	93137.310	-6.734	9.709	1.00	0.00	C
	ATOM	1361	C	PHE	A	93136.350	-5.627	10.133	1.00	0.00	C
	ATOM	1362	O	PHE	A	93136.554	-4.973	11.155	1.00	0.00	O
	ATOM	1363	CB	PHE	A	93138.713	-6.439	10.243	1.00	0.00	C
15	ATOM	1364	CG	PHE	A	93139.735	-7.465	9.842	1.00	0.00	C
	ATOM	1365	CD1	PHE	A	93140.148	-7.570	8.523	1.00	0.00	C
	ATOM	1366	CD2	PHE	A	93140.281	-8.323	10.782	1.00	0.00	C
	ATOM	1367	CE1	PHE	A	93141.090	-8.512	8.151	1.00	0.00	C
	ATOM	1368	CE2	PHE	A	93141.222	-9.267	10.416	1.00	0.00	C
20	ATOM	1369	CZ	PHE	A	93141.626	-9.361	9.099	1.00	0.00	C
	ATOM	1370	H	PHE	A	93137.572	-6.093	7.709	1.00	0.00	H
	ATOM	1371	HA	PHE	A	93136.966	-7.671	10.124	1.00	0.00	H
	ATOM	1372	1HB	PHE	A	93139.039	-5.481	9.867	1.00	0.00	H
	ATOM	1373	2HB	PHE	A	93138.680	-6.406	11.321	1.00	0.00	H
25	ATOM	1374	HD1	PHE	A	93139.731	-6.905	7.782	1.00	0.00	H
	ATOM	1375	HD2	PHE	A	93139.965	-8.250	11.813	1.00	0.00	H
	ATOM	1376	HE1	PHE	A	93141.403	-8.585	7.120	1.00	0.00	H
	ATOM	1377	HE2	PHE	A	93141.639	-9.930	11.159	1.00	0.00	H
	ATOM	1378	HZ	PHE	A	93142.361	-10.099	8.811	1.00	0.00	H



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	ATOM	1379	N	ALA A	94135.303	-5.421	9.339	1.00	0.00	N
	ATOM	1380	CA	ALA A	94134.313	-4.393	9.632	1.00	0.00	C
	ATOM	1381	C	ALA A	94133.083	-4.992	10.307	1.00	0.00	C
	ATOM	1382	O	ALA A	94132.438	-5.889	9.763	1.00	0.00	O
5	ATOM	1383	CB	ALA A	94133.918	-3.663	8.357	1.00	0.00	C
	ATOM	1384	H	ALA A	94135.195	-5.975	8.537	1.00	0.00	H
	ATOM	1385	HA	ALA A	94134.765	-3.677	10.302	1.00	0.00	H
	ATOM	1386	1HB	ALA A	94134.109	-2.606	8.472	1.00	0.00	H
	ATOM	1387	2HB	ALA A	94132.867	-3.819	8.161	1.00	0.00	H
10	ATOM	1388	3HB	ALA A	94134.498	-4.044	7.530	1.00	0.00	H
	ATOM	1389	N	SER A	95132.763	-4.490	11.495	1.00	0.00	N
	ATOM	1390	CA	SER A	95131.610	-4.975	12.245	1.00	0.00	C
	ATOM	1391	C	SER A	95130.308	-4.529	11.587	1.00	0.00	C
	ATOM	1392	O	SER A	95129.946	-3.354	11.637	1.00	0.00	O
15	ATOM	1393	CB	SER A	95131.664	-4.470	13.688	1.00	0.00	C
	ATOM	1394	OG	SER A	95131.564	-3.058	13.739	1.00	0.00	O
	ATOM	1395	H	SER A	95133.315	-3.776	11.877	1.00	0.00	H
	ATOM	1396	HA	SER A	95131.648	-6.054	12.249	1.00	0.00	H
	ATOM	1397	1HB	SER A	95130.845	-4.897	14.247	1.00	0.00	H
20	ATOM	1398	2HB	SER A	95132.600	-4.770	14.136	1.00	0.00	H
	ATOM	1399	HG	SER A	95132.373	-2.667	13.400	1.00	0.00	H
	ATOM	1400	N	LEU A	96129.608	-5.477	10.970	1.00	0.00	N
	ATOM	1401	CA	LEU A	96128.346	-5.182	10.302	1.00	0.00	C
	ATOM	1402	C	LEU A	96127.436	-6.404	10.293	1.00	0.00	C
25	ATOM	1403	O	LEU A	96126.247	-6.309	10.601	1.00	0.00	O
	ATOM	1404	CB	LEU A	96128.601	-4.708	8.870	1.00	0.00	C
	ATOM	1405	CG	LEU A	96127.648	-3.623	8.366	1.00	0.00	C
	ATOM	1406	CD1	LEU A	96128.191	-2.242	8.694	1.00	0.00	C
	ATOM	1407	CD2	LEU A	96127.421	-3.768	6.869	1.00	0.00	C

	ATOM	1408	H	LEU A	96129.949	-6.395	10.965	1.00	0.00	H
	ATOM	1409	HA	LEU A	96127.859	-4.393	10.851	1.00	0.00	H
	ATOM	1410	1HB	LEU A	96129.611	-4.326	8.814	1.00	0.00	H
	ATOM	1411	2HB	LEU A	96128.520	-5.561	8.212	1.00	0.00	H
5	ATOM	1412	HG	LEU A	96126.695	-3.733	8.862	1.00	0.00	H
	ATOM	1413	1HD1	LEU A	96129.269	-2.255	8.634	1.00	0.00	H
	ATOM	1414	2HD1	LEU A	96127.889	-1.963	9.694	1.00	0.00	H
	ATOM	1415	3HD1	LEU A	96127.801	-1.524	7.987	1.00	0.00	H
	ATOM	1416	1HD2	LEU A	96126.537	-4.363	6.695	1.00	0.00	H
10	ATOM	1417	2HD2	LEU A	96128.275	-4.253	6.421	1.00	0.00	H
	ATOM	1418	3HD2	LEU A	96127.289	-2.790	6.429	1.00	0.00	H
	ATOM	1419	N	GLN A	97128.003	-7.548	9.937	1.00	0.00	N
	ATOM	1420	CA	GLN A	97127.247	-8.794	9.885	1.00	0.00	C
	ATOM	1421	C	GLN A	97126.955	-9.315	11.292	1.00	0.00	C
15	ATOM	1422	O	GLN A	97125.796	-9.457	11.681	1.00	0.00	O
	ATOM	1423	CB	GLN A	97128.014	-9.848	9.081	1.00	0.00	C
	ATOM	1424	CG	GLN A	97127.274	-10.326	7.843	1.00	0.00	C
	ATOM	1425	CD	GLN A	97127.055	-9.219	6.831	1.00	0.00	C
	ATOM	1426	OE1	GLN A	97127.736	-8.193	6.859	1.00	0.00	O
20	ATOM	1427	NE2	GLN A	97126.102	-9.421	5.929	1.00	0.00	N
	ATOM	1428	H	GLN A	97128.953	-7.555	9.703	1.00	0.00	H
	ATOM	1429	HA	GLN A	97126.309	-8.591	9.390	1.00	0.00	H
	ATOM	1430	1HB	GLN A	97128.959	-9.428	8.770	1.00	0.00	H
	ATOM	1431	2HB	GLN A	97128.202	-10.703	9.714	1.00	0.00	H
25	ATOM	1432	1HG	GLN A	97127.849	-11.112	7.376	1.00	0.00	H
	ATOM	1433	2HG	GLN A	97126.311	-10.716	8.143	1.00	0.00	H
	ATOM	1434	1HE2	GLN A	97125.600	-10.262	5.967	1.00	0.00	H
	ATOM	1435	2HE2	GLN A	97125.939	-8.721	5.262	1.00	0.00	H
	ATOM	1436	N	PRO A	98128.007	-9.608	12.075	1.00	0.00	N

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	ATOM	1437	CA	PRO A	98127.855	-10.116	13.442	1.00	0.00	C
	ATOM	1438	C	PRO A	98127.388	-9.036	14.412	1.00	0.00	C
	ATOM	1439	O	PRO A	98127.027	-7.933	14.001	1.00	0.00	O
	ATOM	1440	CB	PRO A	98129.266	-10.584	13.802	1.00	0.00	C
5	ATOM	1441	CG	PRO A	98130.167	-9.736	12.973	1.00	0.00	C
	ATOM	1442	CD	PRO A	98129.426	-9.470	11.691	1.00	0.00	C
	ATOM	1443	HA	PRO A	98127.174	-10.952	13.480	1.00	0.00	H
	ATOM	1444	1HB	PRO A	98129.439	-10.434	14.858	1.00	0.00	H
	ATOM	1445	2HB	PRO A	98129.375	-11.630	13.558	1.00	0.00	H
10	ATOM	1446	1HG	PRO A	98130.372	-8.809	13.488	1.00	0.00	H
	ATOM	1447	2HG	PRO A	98131.086	-10.266	12.772	1.00	0.00	H
	ATOM	1448	1HD	PRO A	98129.634	-8.470	11.337	1.00	0.00	H
	ATOM	1449	2HD	PRO A	98129.695	-10.199	10.941	1.00	0.00	H
	ATOM	1450	N	SER A	99127.397	-9.361	15.700	1.00	0.00	N
15	ATOM	1451	CA	SER A	99126.974	-8.420	16.730	1.00	0.00	C
	ATOM	1452	C	SER A	99128.013	-8.325	17.842	1.00	0.00	C
	ATOM	1453	O	SER A	99127.894	-8.984	18.875	1.00	0.00	O
	ATOM	1454	CB	SER A	99125.624	-8.841	17.313	1.00	0.00	C
	ATOM	1455	OG	SER A	99125.449	-10.245	17.232	1.00	0.00	O
20	ATOM	1456	H	SER A	99127.696	-10.257	15.965	1.00	0.00	H
	ATOM	1457	HA	SER A	99126.869	-7.449	16.269	1.00	0.00	H
	ATOM	1458	1HB	SER A	99125.573	-8.545	18.351	1.00	0.00	H
	ATOM	1459	2HB	SER A	99124.830	-8.359	16.762	1.00	0.00	H
	ATOM	1460	HG	SER A	99125.229	-10.489	16.329	1.00	0.00	H
25	ATOM	1461	N	GLY A	100129.034	-7.502	17.623	1.00	0.00	N
	ATOM	1462	CA	GLY A	100130.080	-7.338	18.614	1.00	0.00	C
	ATOM	1463	C	GLY A	100129.626	-6.514	19.806	1.00	0.00	C
	ATOM	1464	O	GLY A	100128.689	-5.723	19.694	1.00	0.00	O
	ATOM	1465	H	GLY A	100129.076	-7.003	16.780	1.00	0.00	H

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	ATOM	1466	1HA	GLY A	100130.389	-8.312	18.962	1.00	0.00	H
	ATOM	1467	2HA	GLY A	100130.925	-6.847	18.153	1.00	0.00	H
	ATOM	1468	N	PRO A	101130.277	-6.678	20.969	1.00	0.00	N
	ATOM	1469	CA	PRO A	101129.924	-5.935	22.183	1.00	0.00	C
5	ATOM	1470	C	PRO A	101130.281	-4.456	22.081	1.00	0.00	C
	ATOM	1471	O	PRO A	101130.835	-4.008	21.078	1.00	0.00	O
	ATOM	1472	CB	PRO A	101130.760	-6.613	23.272	1.00	0.00	C
	ATOM	1473	CG	PRO A	101131.923	-7.196	22.548	1.00	0.00	C
	ATOM	1474	CD	PRO A	101131.408	-7.600	21.194	1.00	0.00	C
10	ATOM	1475	HA	PRO A	101128.874	-6.036	22.418	1.00	0.00	H
	ATOM	1476	1HB	PRO A	101131.075	-5.877	23.998	1.00	0.00	H
	ATOM	1477	2HB	PRO A	101130.173	-7.379	23.757	1.00	0.00	H
	ATOM	1478	1HG	PRO A	101132.702	-6.456	22.446	1.00	0.00	H
	ATOM	1479	2HG	PRO A	101132.292	-8.060	23.080	1.00	0.00	H
15	ATOM	1480	1HD	PRO A	101132.171	-7.462	20.442	1.00	0.00	H
	ATOM	1481	2HD	PRO A	101131.071	-8.625	21.207	1.00	0.00	H
	ATOM	1482	N	SER A	102129.959	-3.702	23.127	1.00	0.00	N
	ATOM	1483	CA	SER A	102130.245	-2.272	23.156	1.00	0.00	C
	ATOM	1484	C	SER A	102131.024	-1.897	24.413	1.00	0.00	C
20	ATOM	1485	O	SER A	102132.035	-1.200	24.344	1.00	0.00	O
	ATOM	1486	CB	SER A	102128.945	-1.469	23.089	1.00	0.00	C
	ATOM	1487	OG	SER A	102127.980	-2.124	22.284	1.00	0.00	O
	ATOM	1488	H	SER A	102129.518	-4.116	23.899	1.00	0.00	H
	ATOM	1489	HA	SER A	102130.847	-2.037	22.291	1.00	0.00	H
25	ATOM	1490	1HB	SER A	102128.544	-1.353	24.086	1.00	0.00	H
	ATOM	1491	2HB	SER A	102129.146	-0.495	22.668	1.00	0.00	H
	ATOM	1492	HG	SER A	102128.380	-2.382	21.450	1.00	0.00	H
	ATOM	1493	N	SER A	103130.545	-2.367	25.561	1.00	0.00	N
	ATOM	1494	CA	SER A	103131.197	-2.082	26.834	1.00	0.00	C

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	ATOM	1495	C	SER A	103130.874	-3.160	27.863	1.00	0.00	C
	ATOM	1496	O	SER A	103131.771	-3.823	28.384	1.00	0.00	O
	ATOM	1497	CB	SER A	103130.760	-0.712	27.358	1.00	0.00	C
	ATOM	1498	OG	SER A	103131.620	0.311	26.891	1.00	0.00	O
5	ATOM	1499	H	SER A	103129.734	-2.918	25.551	1.00	0.00	H
	ATOM	1500	HA	SER A	103132.262	-2.069	26.665	1.00	0.00	H
	ATOM	1501	1HB	SER A	103129.756	-0.503	27.021	1.00	0.00	H
	ATOM	1502	2HB	SER A	103130.783	-0.720	28.438	1.00	0.00	H
	ATOM	1503	HG	SER A	103132.396	0.360	27.455	1.00	0.00	H
10	ATOM	1504	N	GLY A	104129.588	-3.329	28.153	1.00	0.00	N
	ATOM	1505	CA	GLY A	104129.170	-4.328	29.119	1.00	0.00	C
	ATOM	1506	C	GLY A	104127.832	-4.001	29.751	1.00	0.00	C
	ATOM	1507	O	GLY A	104127.823	-3.345	30.815	1.00	0.00	O
	ATOM	1508	OXT	GLY A	104126.794	-4.397	29.183	1.00	0.00	O
15	ATOM	1509	H	GLY A	104128.917	-2.771	27.707	1.00	0.00	H
	ATOM	1510	1HA	GLY A	104129.097	-5.284	28.622	1.00	0.00	H
	ATOM	1511	2HA	GLY A	104129.917	-4.395	29.897	1.00	0.00	H
	TER	1512	GLY A	104						
	ENDMDL									

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## 立体構造座標表 8

	ATOM	1	N	GLY A	1135.862	21.326	-5.428	1.00	0.00	N
	ATOM	2	CA	GLY A	1136.784	22.453	-5.740	1.00	0.00	C
	ATOM	3	C	GLY A	1136.436	23.144	-7.044	1.00	0.00	C
25	ATOM	4	O	GLY A	1135.778	24.184	-7.046	1.00	0.00	O
	ATOM	5	1H	GLY A	1134.965	21.447	-5.941	1.00	0.00	H
	ATOM	6	2H	GLY A	1135.664	21.298	-4.408	1.00	0.00	H
	ATOM	7	3H	GLY A	1136.294	20.423	-5.712	1.00	0.00	H
	ATOM	8	1HA	GLY A	1136.736	23.175	-4.938	1.00	0.00	H

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	ATOM 9	2HA	GLY A	1137.793	22.071	-5.805	1.00	0.00	H
	ATOM10	N	SER A	2136.880	22.565	-8.154	1.00	0.00	N
	ATOM11	CA	SER A	2136.611	23.132	-9.471	1.00	0.00	C
	ATOM12	C	SER A	2135.133	23.008	-9.825	1.00	0.00	C
5	ATOM13	O	SER A	2134.622	21.906	-10.024	1.00	0.00	O
	ATOM14	CB	SER A	2137.463	22.432	-10.532	1.00	0.00	C
	ATOM15	OG	SER A	2137.904	23.351	-11.518	1.00	0.00	O
	ATOM16	H	SER A	2137.399	21.736	-8.087	1.00	0.00	H
	ATOM17	HA	SER A	2136.876	24.178	-9.441	1.00	0.00	H
10	ATOM18	1HB	SER A	2138.326	21.986	-10.063	1.00	0.00	H
	ATOM19	2HB	SER A	2136.876	21.663	-11.012	1.00	0.00	H
	ATOM20	HG	SER A	2138.856	23.456	-11.454	1.00	0.00	H
	ATOM21	N	SER A	3134.452	24.146	-9.904	1.00	0.00	N
	ATOM22	CA	SER A	3133.032	24.166	-10.234	1.00	0.00	C
15	ATOM23	C	SER A	3132.822	24.039	-11.740	1.00	0.00	C
	ATOM24	O	SER A	3133.076	24.979	-12.494	1.00	0.00	O
	ATOM25	CB	SER A	3132.385	25.455	-9.725	1.00	0.00	C
	ATOM26	OG	SER A	3132.929	26.590	-10.375	1.00	0.00	O
	ATOM27	H	SER A	3134.915	24.993	-9.735	1.00	0.00	H
20	ATOM28	HA	SER A	3132.567	23.323	-9.747	1.00	0.00	H
	ATOM29	1HB	SER A	3131.323	25.422	-9.915	1.00	0.00	H
	ATOM30	2HB	SER A	3132.558	25.547	-8.663	1.00	0.00	H
	ATOM31	HG	SER A	3132.626	26.615	-11.286	1.00	0.00	H
	ATOM32	N	GLY A	4132.358	22.871	-12.172	1.00	0.00	N
25	ATOM33	CA	GLY A	4132.122	22.643	-13.585	1.00	0.00	C
	ATOM34	C	GLY A	4132.095	21.169	-13.938	1.00	0.00	C
	ATOM35	O	GLY A	4132.285	20.314	-13.073	1.00	0.00	O
	ATOM36	H	GLY A	4132.174	22.159	-11.525	1.00	0.00	H
	ATOM37	1HA	GLY A	4131.175	23.084	-13.857	1.00	0.00	H

	ATOM38	2HA	GLY A	4132.906	23.123	-14.151	1.00	0.00	H
	ATOM39	N	SER A	5131.857	20.871	-15.211	1.00	0.00	N
	ATOM40	CA	SER A	5131.806	19.490	-15.676	1.00	0.00	C
	ATOM41	C	SER A	5130.700	18.717	-14.963	1.00	0.00	C
5	ATOM42	O	SER A	5130.136	19.190	-13.977	1.00	0.00	O
	ATOM43	CB	SER A	5133.153	18.803	-15.448	1.00	0.00	C
	ATOM44	OG	SER A	5133.460	17.916	-16.510	1.00	0.00	O
	ATOM45	H	SER A	5131.714	21.598	-15.853	1.00	0.00	H
	ATOM46	HA	SER A	5131.593	19.505	-16.734	1.00	0.00	H
10	ATOM47	1HB	SER A	5133.930	19.550	-15.385	1.00	0.00	H
	ATOM48	2HB	SER A	5133.118	18.242	-14.526	1.00	0.00	H
	ATOM49	HG	SER A	5133.809	18.414	-17.252	1.00	0.00	H
	ATOM50	N	SER A	6130.397	17.527	-15.469	1.00	0.00	N
	ATOM51	CA	SER A	6129.360	16.689	-14.880	1.00	0.00	C
15	ATOM52	C	SER A	6129.754	15.216	-14.934	1.00	0.00	C
	ATOM53	O	SER A	6129.519	14.536	-15.934	1.00	0.00	O
	ATOM54	CB	SER A	6128.031	16.900	-15.608	1.00	0.00	C
	ATOM55	OG	SER A	6128.003	18.156	-16.264	1.00	0.00	O
	ATOM56	H	SER A	6130.884	17.203	-16.256	1.00	0.00	H
20	ATOM57	HA	SER A	6129.244	16.980	-13.847	1.00	0.00	H
	ATOM58	1HB	SER A	6127.897	16.121	-16.343	1.00	0.00	H
	ATOM59	2HB	SER A	6127.222	16.863	-14.893	1.00	0.00	H
	ATOM60	HG	SER A	6127.925	18.856	-15.612	1.00	0.00	H
	ATOM61	N	GLY A	7130.352	14.729	-13.853	1.00	0.00	N
25	ATOM62	CA	GLY A	7130.769	13.340	-13.798	1.00	0.00	C
	ATOM63	C	GLY A	7131.372	12.967	-12.458	1.00	0.00	C
	ATOM64	O	GLY A	7132.589	12.825	-12.335	1.00	0.00	O
	ATOM65	H	GLY A	7130.513	15.317	-13.085	1.00	0.00	H
	ATOM66	1HA	GLY A	7129.910	12.711	-13.981	1.00	0.00	H

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	ATOM67	2HA	GLY A	7131.502	13.165	-14.571	1.00	0.00	H
	ATOM68	N	LEU A	8130.520	12.809	-11.450	1.00	0.00	N
	ATOM69	CA	LEU A	8130.974	12.451	-10.112	1.00	0.00	C
	ATOM70	C	LEU A	8130.399	11.105	-9.684	1.00	0.00	C
5	ATOM71	O	LEU A	8129.312	10.718	-10.114	1.00	0.00	O
	ATOM72	CB	LEU A	8130.573	13.532	-9.107	1.00	0.00	C
	ATOM73	CG	LEU A	8130.735	14.970	-9.605	1.00	0.00	C
	ATOM74	CD1	LEU A	8129.892	15.921	-8.770	1.00	0.00	C
	ATOM75	CD2	LEU A	8132.199	15.382	-9.570	1.00	0.00	C
10	ATOM76	H	LEU A	8129.561	12.936	-11.611	1.00	0.00	H
	ATOM77	HA	LEU A	8132.051	12.376	-10.136	1.00	0.00	H
	ATOM78	1HB	LEU A	8129.538	13.379	-8.841	1.00	0.00	H
	ATOM79	2HB	LEU A	8131.177	13.412	-8.221	1.00	0.00	H
	ATOM80	HG	LEU A	8130.392	15.031	-10.627	1.00	0.00	H
15	ATOM81	1HD1	LEU A	8129.871	16.892	-9.242	1.00	0.00	H
	ATOM82	2HD1	LEU A	8130.321	16.010	-7.782	1.00	0.00	H
	ATOM83	3HD1	LEU A	8128.885	15.537	-8.692	1.00	0.00	H
	ATOM84	1HD2	LEU A	8132.656	15.168	-10.525	1.00	0.00	H
	ATOM85	2HD2	LEU A	8132.710	14.832	-8.795	1.00	0.00	H
20	ATOM86	3HD2	LEU A	8132.270	16.441	-9.367	1.00	0.00	H
	ATOM87	N	ALA A	9131.134	10.395	-8.834	1.00	0.00	N
	ATOM88	CA	ALA A	9130.696	9.092	-8.348	1.00	0.00	C
	ATOM89	C	ALA A	9131.453	8.694	-7.086	1.00	0.00	C
	ATOM90	O	ALA A	9131.772	7.522	-6.886	1.00	0.00	O
25	ATOM91	CB	ALA A	9130.878	8.038	-9.430	1.00	0.00	C
	ATOM92	H	ALA A	9131.991	10.756	-8.527	1.00	0.00	H
	ATOM93	HA	ALA A	9129.643	9.160	-8.118	1.00	0.00	H
	ATOM94	1HB	ALA A	9129.990	7.996	-10.045	1.00	0.00	H
	ATOM95	2HB	ALA A	9131.042	7.075	-8.970	1.00	0.00	H



	ATOM96	3HB	ALA	A	9131.728	8.295	-10.044	1.00	0.00	H
	ATOM97	N	MET	A	10131.737	9.675	-6.238	1.00	0.00	N
	ATOM98	CA	MET	A	10132.457	9.427	-4.994	1.00	0.00	C
	ATOM99	C	MET	A	10132.314	10.608	-4.035	1.00	0.00	C
5	ATOM	100	O	MET	A	10133.291	11.291	-3.728	1.00	0.00 O
	ATOM	101	CB	MET	A	10133.936	9.159	-5.280	1.00	0.00 C
	ATOM	102	CG	MET	A	10134.602	10.248	-6.106	1.00	0.00 C
	ATOM	103	SD	MET	A	10136.400	10.200	-5.997	1.00	0.00 S
	ATOM	104	CE	MET	A	10136.829	11.766	-6.751	1.00	0.00 C
10	ATOM	105	H	MET	A	10131.456	10.589	-6.452	1.00	0.00 H
	ATOM	106	HA	MET	A	10132.025	8.550	-4.532	1.00	0.00 H
	ATOM	107	1HB	MET	A	10134.463	9.076	-4.342	1.00	0.00 H
	ATOM	108	2HB	MET	A	10134.023	8.226	-5.817	1.00	0.00 H
	ATOM	109	1HG	MET	A	10134.315	10.123	-7.140	1.00	0.00 H
15	ATOM	110	2HG	MET	A	10134.259	11.209	-5.752	1.00	0.00 H
	ATOM	111	1HE	MET	A	10137.179	11.598	-7.758	1.00	0.00 H
	ATOM	112	2HE	MET	A	10137.606	12.244	-6.174	1.00	0.00 H
	ATOM	113	3HE	MET	A	10135.957	12.404	-6.776	1.00	0.00 H
	ATOM	114	N	PRO	A	11131.087	10.866	-3.550	1.00	0.00 N
20	ATOM	115	CA	PRO	A	11130.821	11.971	-2.624	1.00	0.00 C
	ATOM	116	C	PRO	A	11131.642	11.867	-1.340	1.00	0.00 C
	ATOM	117	O	PRO	A	11132.251	12.845	-0.908	1.00	0.00 O
	ATOM	118	CB	PRO	A	11129.326	11.848	-2.315	1.00	0.00 C
	ATOM	119	CG	PRO	A	11128.762	11.010	-3.412	1.00	0.00 C
25	ATOM	120	CD	PRO	A	11129.869	10.103	-3.867	1.00	0.00 C
	ATOM	121	HA	PRO	A	11131.015	12.926	-3.092	1.00	0.00 H
	ATOM	122	1HB	PRO	A	11129.192	11.379	-1.351	1.00	0.00 H
	ATOM	123	2HB	PRO	A	11128.878	12.831	-2.304	1.00	0.00 H
	ATOM	124	1HG	PRO	A	11127.936	10.427	-3.036	1.00	0.00 H

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	ATOM	125	2HG	PRO A	11128.436	11.641	-4.225	1.00	0.00	H
	ATOM	126	1HD	PRO A	11129.843	9.171	-3.321	1.00	0.00	H
	ATOM	127	2HD	PRO A	11129.794	9.920	-4.929	1.00	0.00	H
	ATOM	128	N	PRO A	12131.677	10.677	-0.709	1.00	0.00	N
5	ATOM	129	CA	PRO A	12132.438	10.469	0.528	1.00	0.00	C
	ATOM	130	C	PRO A	12133.904	10.857	0.370	1.00	0.00	C
	ATOM	131	O	PRO A	12134.589	11.145	1.352	1.00	0.00	O
	ATOM	132	CB	PRO A	12132.309	8.965	0.784	1.00	0.00	C
	ATOM	133	CG	PRO A	12131.074	8.556	0.061	1.00	0.00	C
10	ATOM	134	CD	PRO A	12130.989	9.447	-1.146	1.00	0.00	C
	ATOM	135	HA	PRO A	12132.008	11.017	1.353	1.00	0.00	H
	ATOM	136	1HB	PRO A	12133.180	8.455	0.397	1.00	0.00	H
	ATOM	137	2HB	PRO A	12132.223	8.783	1.845	1.00	0.00	H
	ATOM	138	1HG	PRO A	12131.149	7.522	-0.240	1.00	0.00	H
15	ATOM	139	2HG	PRO A	12130.212	8.703	0.695	1.00	0.00	H
	ATOM	140	1HD	PRO A	12131.501	8.996	-1.984	1.00	0.00	H
	ATOM	141	2HD	PRO A	12129.959	9.647	-1.395	1.00	0.00	H
	ATOM	142	N	GLY A	13134.378	10.862	-0.872	1.00	0.00	N
	ATOM	143	CA	GLY A	13135.761	11.216	-1.136	1.00	0.00	C
20	ATOM	144	C	GLY A	13136.420	10.278	-2.127	1.00	0.00	C
	ATOM	145	O	GLY A	13136.953	10.716	-3.146	1.00	0.00	O
	ATOM	146	H	GLY A	13133.785	10.624	-1.616	1.00	0.00	H
	ATOM	147	1HA	GLY A	13135.794	12.220	-1.531	1.00	0.00	H
	ATOM	148	2HA	GLY A	13136.311	11.187	-0.208	1.00	0.00	H
25	ATOM	149	N	ASN A	14136.385	8.983	-1.827	1.00	0.00	N
	ATOM	150	CA	ASN A	14136.984	7.980	-2.698	1.00	0.00	C
	ATOM	151	C	ASN A	14136.171	6.690	-2.683	1.00	0.00	C
	ATOM	152	O	ASN A	14136.322	5.861	-1.785	1.00	0.00	O
	ATOM	153	CB	ASN A	14138.424	7.694	-2.268	1.00	0.00	C

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	ATOM	154	CG	ASN A	14139.315	8.916	-2.382	1.00	0.00	C
	ATOM	155	OD1	ASN A	14140.077	9.056	-3.338	1.00	0.00	O
	ATOM	156	ND2	ASN A	14139.222	9.809	-1.403	1.00	0.00	N
	ATOM	157	H	ASN A	14135.946	8.697	-0.999	1.00	0.00	H
5	ATOM	158	HA	ASN A	14136.990	8.375	-3.704	1.00	0.00	H
	ATOM	159	1HB	ASN A	14138.428	7.364	-1.240	1.00	0.00	H
	ATOM	160	2HB	ASN A	14138.832	6.914	-2.894	1.00	0.00	H
	ATOM	161	1HD2	ASN A	14138.593	9.631	-0.673	1.00	0.00	H
	ATOM	162	2HD2	ASN A	14139.787	10.609	-1.451	1.00	0.00	H
10	ATOM	163	N	SER A	15135.310	6.527	-3.682	1.00	0.00	N
	ATOM	164	CA	SER A	15134.470	5.338	-3.787	1.00	0.00	C
	ATOM	165	C	SER A	15133.494	5.253	-2.616	1.00	0.00	C
	ATOM	166	O	SER A	15132.317	5.585	-2.753	1.00	0.00	O
	ATOM	167	CB	SER A	15135.336	4.076	-3.840	1.00	0.00	C
15	ATOM	168	OG	SER A	15135.576	3.678	-5.179	1.00	0.00	O
	ATOM	169	H	SER A	15135.237	7.224	-4.368	1.00	0.00	H
	ATOM	170	HA	SER A	15133.905	5.413	-4.704	1.00	0.00	H
	ATOM	171	1HB	SER A	15136.284	4.272	-3.361	1.00	0.00	H
	ATOM	172	2HB	SER A	15134.832	3.273	-3.323	1.00	0.00	H
20	ATOM	173	HG	SER A	15136.355	4.129	-5.512	1.00	0.00	H
	ATOM	174	N	HIS A	16133.990	4.808	-1.466	1.00	0.00	N
	ATOM	175	CA	HIS A	16133.161	4.680	-0.273	1.00	0.00	C
	ATOM	176	C	HIS A	16133.758	5.463	0.892	1.00	0.00	C
	ATOM	177	O	HIS A	16133.046	6.158	1.616	1.00	0.00	O
25	ATOM	178	CB	HIS A	16133.007	3.208	0.111	1.00	0.00	C
	ATOM	179	CG	HIS A	16131.982	2.480	-0.703	1.00	0.00	C
	ATOM	180	ND1	HIS A	16130.635	2.772	-0.652	1.00	0.00	N
	ATOM	181	CD2	HIS A	16132.113	1.469	-1.593	1.00	0.00	C
	ATOM	182	CE1	HIS A	16129.982	1.969	-1.475	1.00	0.00	C

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	ATOM	183	NE2	HIS	A	16130.856	1.170	-2.059	1.00	0.00	N
	ATOM	184	H	HIS	A	16134.936	4.559	-1.419	1.00	0.00	H
	ATOM	185	HA	HIS	A	16132.187	5.087	-0.502	1.00	0.00	H
	ATOM	186	1HB	HIS	A	16133.953	2.708	-0.024	1.00	0.00	H
5	ATOM	187	2HB	HIS	A	16132.715	3.143	1.149	1.00	0.00	H
	ATOM	188	HD1	HIS	A	16130.219	3.462	-0.095	1.00	0.00	H
	ATOM	189	HD2	HIS	A	16133.035	0.986	-1.884	1.00	0.00	H
	ATOM	190	HE1	HIS	A	16128.915	1.969	-1.642	1.00	0.00	H
	ATOM	191	HE2	HIS	A	16130.650	0.540	-2.779	1.00	0.00	H
10	ATOM	192	N	GLY	A	17135.070	5.345	1.066	1.00	0.00	N
	ATOM	193	CA	GLY	A	17135.741	6.047	2.144	1.00	0.00	C
	ATOM	194	C	GLY	A	17137.087	5.436	2.485	1.00	0.00	C
	ATOM	195	O	GLY	A	17137.242	4.806	3.530	1.00	0.00	O
	ATOM	196	H	GLY	A	17135.587	4.777	0.457	1.00	0.00	H
15	ATOM	197	1HA	GLY	A	17135.889	7.076	1.853	1.00	0.00	H
	ATOM	198	2HA	GLY	A	17135.113	6.019	3.022	1.00	0.00	H
	ATOM	199	N	LEU	A	18138.060	5.623	1.600	1.00	0.00	N
	ATOM	200	CA	LEU	A	18139.399	5.086	1.811	1.00	0.00	C
	ATOM	201	C	LEU	A	18140.344	6.167	2.328	1.00	0.00	C
20	ATOM	202	O	LEU	A	18140.685	7.103	1.606	1.00	0.00	O
	ATOM	203	CB	LEU	A	18139.946	4.493	0.511	1.00	0.00	C
	ATOM	204	CG	LEU	A	18139.060	3.428	-0.138	1.00	0.00	C
	ATOM	205	CD1	LEU	A	18139.482	3.188	-1.579	1.00	0.00	C
	ATOM	206	CD2	LEU	A	18139.115	2.134	0.659	1.00	0.00	C
25	ATOM	207	H	LEU	A	18137.874	6.134	0.784	1.00	0.00	H
	ATOM	208	HA	LEU	A	18139.328	4.303	2.551	1.00	0.00	H
	ATOM	209	1HB	LEU	A	18140.082	5.298	-0.196	1.00	0.00	H
	ATOM	210	2HB	LEU	A	18140.908	4.051	0.718	1.00	0.00	H
	ATOM	211	HG	LEU	A	18138.037	3.776	-0.144	1.00	0.00	H

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	ATOM	212	1HD1	LEU	A	18139.230	2.178	-1.864	1.00	0.00	H
	ATOM	213	2HD1	LEU	A	18140.549	3.332	-1.670	1.00	0.00	H
	ATOM	214	3HD1	LEU	A	18138.969	3.883	-2.226	1.00	0.00	H
	ATOM	215	1HD2	LEU	A	18140.134	1.935	0.954	1.00	0.00	H
5	ATOM	216	2HD2	LEU	A	18138.751	1.320	0.050	1.00	0.00	H
	ATOM	217	3HD2	LEU	A	18138.497	2.226	1.540	1.00	0.00	H
	ATOM	218	N	GLU	A	19140.763	6.029	3.581	1.00	0.00	N
	ATOM	219	CA	GLU	A	19141.670	6.993	4.194	1.00	0.00	C
	ATOM	220	C	GLU	A	19142.671	6.294	5.108	1.00	0.00	C
10	ATOM	221	O	GLU	A	19142.581	5.089	5.338	1.00	0.00	O
	ATOM	222	CB	GLU	A	19140.878	8.036	4.986	1.00	0.00	C
	ATOM	223	CG	GLU	A	19139.943	7.432	6.022	1.00	0.00	C
	ATOM	224	CD	GLU	A	19138.972	8.446	6.592	1.00	0.00	C
	ATOM	225	OE1	GLU	A	19138.749	8.429	7.820	1.00	0.00	O
15	ATOM	226	OE2	GLU	A	19138.435	9.259	5.810	1.00	0.00	O
	ATOM	227	H	GLU	A	19140.458	5.260	4.107	1.00	0.00	H
	ATOM	228	HA	GLU	A	19142.209	7.491	3.402	1.00	0.00	H
	ATOM	229	1HB	GLU	A	19141.573	8.686	5.497	1.00	0.00	H
	ATOM	230	2HB	GLU	A	19140.288	8.623	4.298	1.00	0.00	H
20	ATOM	231	1HG	GLU	A	19139.378	6.637	5.558	1.00	0.00	H
	ATOM	232	2HG	GLU	A	19140.535	7.027	6.830	1.00	0.00	H
	ATOM	233	N	VAL	A	20143.626	7.060	5.626	1.00	0.00	N
	ATOM	234	CA	VAL	A	20144.644	6.514	6.516	1.00	0.00	C
	ATOM	235	C	VAL	A	20144.014	5.893	7.757	1.00	0.00	C
25	ATOM	236	O	VAL	A	20143.157	6.499	8.401	1.00	0.00	O
	ATOM	237	CB	VAL	A	20145.649	7.598	6.952	1.00	0.00	C
	ATOM	238	CG1	VAL	A	20146.811	6.976	7.710	1.00	0.00	C
	ATOM	239	CG2	VAL	A	20146.147	8.381	5.747	1.00	0.00	C
	ATOM	240	H	VAL	A	20143.645	8.015	5.406	1.00	0.00	H

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	ATOM	241	HA	VAL A	20145.184	5.750	5.976	1.00	0.00	H
	ATOM	242	HB	VAL A	20145.142	8.284	7.615	1.00	0.00	H
	ATOM	243	1HG1	VAL A	20147.087	6.042	7.244	1.00	0.00	H
	ATOM	244	2HG1	VAL A	20146.517	6.793	8.733	1.00	0.00	H
5	ATOM	245	3HG1	VAL A	20147.655	7.650	7.693	1.00	0.00	H
	ATOM	246	1HG2	VAL A	20147.116	8.803	5.967	1.00	0.00	H
	ATOM	247	2HG2	VAL A	20145.451	9.175	5.521	1.00	0.00	H
	ATOM	248	3HG2	VAL A	20146.227	7.720	4.897	1.00	0.00	H
	ATOM	249	N	GLY A	21144.445	4.680	8.089	1.00	0.00	N
10	ATOM	250	CA	GLY A	21143.912	3.996	9.253	1.00	0.00	C
	ATOM	251	C	GLY A	21142.916	2.914	8.885	1.00	0.00	C
	ATOM	252	O	GLY A	21142.848	1.876	9.542	1.00	0.00	O
	ATOM	253	H	GLY A	21145.130	4.247	7.539	1.00	0.00	H
	ATOM	254	1HA	GLY A	21144.730	3.548	9.799	1.00	0.00	H
15	ATOM	255	2HA	GLY A	21143.424	4.720	9.888	1.00	0.00	H
	ATOM	256	N	SER A	22142.142	3.158	7.834	1.00	0.00	N
	ATOM	257	CA	SER A	22141.145	2.196	7.379	1.00	0.00	C
	ATOM	258	C	SER A	22141.791	1.093	6.546	1.00	0.00	C
	ATOM	259	O	SER A	22142.817	1.309	5.902	1.00	0.00	O
20	ATOM	260	CB	SER A	22140.061	2.901	6.561	1.00	0.00	C
	ATOM	261	OG	SER A	22139.134	3.563	7.404	1.00	0.00	O
	ATOM	262	H	SER A	22142.245	4.005	7.350	1.00	0.00	H
	ATOM	263	HA	SER A	22140.691	1.752	8.253	1.00	0.00	H
	ATOM	264	1HB	SER A	22140.522	3.631	5.911	1.00	0.00	H
25	ATOM	265	2HB	SER A	22139.532	2.172	5.965	1.00	0.00	H
	ATOM	266	HG	SER A	22139.608	4.049	8.083	1.00	0.00	H
	ATOM	267	N	LEU A	23141.182	-0.088	6.563	1.00	0.00	N
	ATOM	268	CA	LEU A	23141.698	-1.224	5.809	1.00	0.00	C
	ATOM	269	C	LEU A	23141.307	-1.125	4.338	1.00	0.00	C

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	ATOM	270	O	LEU A	23140.274	-0.549	3.998	1.00	0.00	O
	ATOM	271	CB	LEU A	23141.177	-2.535	6.399	1.00	0.00	C
	ATOM	272	CG	LEU A	23141.354	-2.680	7.911	1.00	0.00	C
	ATOM	273	CD1	LEU A	23140.277	-3.584	8.491	1.00	0.00	C
5	ATOM	274	CD2	LEU A	23142.738	-3.221	8.235	1.00	0.00	C
	ATOM	275	H	LEU A	23140.367	-0.198	7.095	1.00	0.00	H
	ATOM	276	HA	LEU A	23142.775	-1.210	5.884	1.00	0.00	H
	ATOM	277	1HB	LEU A	23140.123	-2.612	6.172	1.00	0.00	H
	ATOM	278	2HB	LEU A	23141.693	-3.352	5.919	1.00	0.00	H
10	ATOM	279	HG	LEU A	23141.257	-1.708	8.373	1.00	0.00	H
	ATOM	280	1HD1	LEU A	23140.028	-3.253	9.489	1.00	0.00	H
	ATOM	281	2HD1	LEU A	23140.642	-4.600	8.529	1.00	0.00	H
	ATOM	282	3HD1	LEU A	23139.396	-3.540	7.868	1.00	0.00	H
	ATOM	283	1HD2	LEU A	23143.421	-2.963	7.439	1.00	0.00	H
15	ATOM	284	2HD2	LEU A	23142.691	-4.296	8.333	1.00	0.00	H
	ATOM	285	3HD2	LEU A	23143.085	-2.791	9.162	1.00	0.00	H
	ATOM	286	N	ALA A	24142.140	-1.689	3.470	1.00	0.00	N
	ATOM	287	CA	ALA A	24141.882	-1.663	2.035	1.00	0.00	C
	ATOM	288	C	ALA A	24142.477	-2.887	1.349	1.00	0.00	C
20	ATOM	289	O	ALA A	24143.416	-3.502	1.856	1.00	0.00	O
	ATOM	290	CB	ALA A	24142.439	-0.388	1.421	1.00	0.00	C
	ATOM	291	H	ALA A	24142.948	-2.133	3.802	1.00	0.00	H
	ATOM	292	HA	ALA A	24140.811	-1.667	1.890	1.00	0.00	H
	ATOM	293	1HB	ALA A	24143.407	-0.591	0.986	1.00	0.00	H
25	ATOM	294	2HB	ALA A	24142.541	0.365	2.188	1.00	0.00	H
	ATOM	295	3HB	ALA A	24141.767	-0.034	0.654	1.00	0.00	H
	ATOM	296	N	GLU A	25141.926	-3.237	0.191	1.00	0.00	N
	ATOM	297	CA	GLU A	25142.403	-4.388	-0.566	1.00	0.00	C
	ATOM	298	C	GLU A	25142.632	-4.020	-2.029	1.00	0.00	C

	ATOM	299	O	GLU A	25141.891	-3.223	-2.602	1.00	0.00	O
	ATOM	300	CB	GLU A	25141.401	-5.540	-0.470	1.00	0.00	C
	ATOM	301	CG	GLU A	25142.005	-6.899	-0.780	1.00	0.00	C
	ATOM	302	CD	GLU A	25141.078	-7.776	-1.599	1.00	0.00	C
5	ATOM	303	OE1	GLU A	25141.583	-8.664	-2.319	1.00	0.00	O
	ATOM	304	OE2	GLU A	25139.847	-7.577	-1.520	1.00	0.00	O
	ATOM	305	H	GLU A	25141.181	-2.708	-0.163	1.00	0.00	H
	ATOM	306	HA	GLU A	25143.341	-4.703	-0.135	1.00	0.00	H
	ATOM	307	1HB	GLU A	25140.998	-5.569	0.532	1.00	0.00	H
10	ATOM	308	2HB	GLU A	25140.596	-5.360	-1.167	1.00	0.00	H
	ATOM	309	1HG	GLU A	25142.920	-6.755	-1.332	1.00	0.00	H
	ATOM	310	2HG	GLU A	25142.223	-7.402	0.152	1.00	0.00	H
	ATOM	311	N	VAL A	26143.664	-4.607	-2.627	1.00	0.00	N
	ATOM	312	CA	VAL A	26143.992	-4.340	-4.022	1.00	0.00	C
15	ATOM	313	C	VAL A	26143.563	-5.497	-4.918	1.00	0.00	C
	ATOM	314	O	VAL A	26143.381	-6.622	-4.450	1.00	0.00	O
	ATOM	315	CB	VAL A	26145.500	-4.093	-4.208	1.00	0.00	C
	ATOM	316	CG1	VAL A	26145.793	-3.607	-5.619	1.00	0.00	C
	ATOM	317	CG2	VAL A	26146.010	-3.097	-3.177	1.00	0.00	C
20	ATOM	318	H	VAL A	26144.220	-5.233	-2.117	1.00	0.00	H
	ATOM	319	HA	VAL A	26143.462	-3.448	-4.325	1.00	0.00	H
	ATOM	320	HB	VAL A	26146.019	-5.029	-4.060	1.00	0.00	H
	ATOM	321	1HG1	VAL A	26145.913	-4.456	-6.276	1.00	0.00	H
	ATOM	322	2HG1	VAL A	26146.700	-3.022	-5.618	1.00	0.00	H
25	ATOM	323	3HG1	VAL A	26144.972	-2.997	-5.968	1.00	0.00	H
	ATOM	324	1HG2	VAL A	26146.053	-3.572	-2.209	1.00	0.00	H
	ATOM	325	2HG2	VAL A	26145.341	-2.250	-3.133	1.00	0.00	H
	ATOM	326	3HG2	VAL A	26146.998	-2.762	-3.457	1.00	0.00	H
	ATOM	327	N	LYS A	27143.402	-5.215	-6.206	1.00	0.00	N



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	ATOM	328	CA	LYS A	27142.994	-6.233	-7.167	1.00	0.00	C
	ATOM	329	C	LYS A	27144.201	-6.795	-7.911	1.00	0.00	C
	ATOM	330	O	LYS A	27144.125	-7.090	-9.103	1.00	0.00	O
	ATOM	331	CB	LYS A	27141.991	-5.650	-8.164	1.00	0.00	C
5	ATOM	332	CG	LYS A	27142.567	-4.539	-9.028	1.00	0.00	C
	ATOM	333	CD	LYS A	27141.949	-4.536	-10.418	1.00	0.00	C
	ATOM	334	CE	LYS A	27142.791	-5.328	-11.406	1.00	0.00	C
	ATOM	335	NZ	LYS A	27141.989	-6.363	-12.115	1.00	0.00	N
	ATOM	336	H	LYS A	27143.561	-4.300	-6.518	1.00	0.00	H
10	ATOM	337	HA	LYS A	27142.519	-7.033	-6.620	1.00	0.00	H
	ATOM	338	1HB	LYS A	27141.647	-6.440	-8.815	1.00	0.00	H
	ATOM	339	2HB	LYS A	27141.149	-5.252	-7.619	1.00	0.00	H
	ATOM	340	1HG	LYS A	27142.369	-3.589	-8.556	1.00	0.00	H
	ATOM	341	2HG	LYS A	27143.634	-4.683	-9.117	1.00	0.00	H
15	ATOM	342	1HD	LYS A	27140.966	-4.979	-10.364	1.00	0.00	H
	ATOM	343	2HD	LYS A	27141.868	-3.516	-10.762	1.00	0.00	H
	ATOM	344	1HE	LYS A	27143.204	-4.646	-12.134	1.00	0.00	H
	ATOM	345	2HE	LYS A	27143.595	-5.812	-10.871	1.00	0.00	H
	ATOM	346	1HZ	LYS A	27142.045	-7.269	-11.606	1.00	0.00	H
20	ATOM	347	2HZ	LYS A	27142.351	-6.497	-13.081	1.00	0.00	H
	ATOM	348	3HZ	LYS A	27140.993	-6.068	-12.168	1.00	0.00	H
	ATOM	349	N	GLU A	28145.314	-6.940	-7.199	1.00	0.00	N
	ATOM	350	CA	GLU A	28146.537	-7.467	-7.793	1.00	0.00	C
	ATOM	351	C	GLU A	28146.479	-8.988	-7.899	1.00	0.00	C
25	ATOM	352	O	GLU A	28145.509	-9.614	-7.472	1.00	0.00	O
	ATOM	353	CB	GLU A	28147.753	-7.046	-6.964	1.00	0.00	C
	ATOM	354	CG	GLU A	28148.886	-6.467	-7.797	1.00	0.00	C
	ATOM	355	CD	GLU A	28150.212	-6.475	-7.064	1.00	0.00	C
	ATOM	356	OE1	GLU A	28150.759	-5.379	-6.815	1.00	0.00	O

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	ATOM	357	OE2	GLU	A	28150.704	-7.575	-6.738	1.00	0.00	O
	ATOM	358	H	GLU	A	28145.312	-6.687	-6.252	1.00	0.00	H
	ATOM	359	HA	GLU	A	28146.628	-7.052	-8.786	1.00	0.00	H
	ATOM	360	1HB	GLU	A	28147.445	-6.299	-6.248	1.00	0.00	H
5	ATOM	361	2HB	GLU	A	28148.131	-7.908	-6.433	1.00	0.00	H
	ATOM	362	1HG	GLU	A	28148.987	-7.052	-8.699	1.00	0.00	H
	ATOM	363	2HG	GLU	A	28148.639	-5.448	-8.058	1.00	0.00	H
	ATOM	364	N	ASN	A	29147.525	-9.576	-8.471	1.00	0.00	N
	ATOM	365	CA	ASN	A	29147.594	-11.024	-8.632	1.00	0.00	C
10	ATOM	366	C	ASN	A	29147.522	-11.726	-7.277	1.00	0.00	C
	ATOM	367	O	ASN	A	29146.628	-12.537	-7.037	1.00	0.00	O
	ATOM	368	CB	ASN	A	29148.882	-11.416	-9.358	1.00	0.00	C
	ATOM	369	CG	ASN	A	29148.671	-11.604	-10.847	1.00	0.00	C
	ATOM	370	OD1	ASN	A	29148.987	-12.657	-11.403	1.00	0.00	O
15	ATOM	371	ND2	ASN	A	29148.135	-10.581	-11.504	1.00	0.00	N
	ATOM	372	H	ASN	A	29148.269	-9.024	-8.791	1.00	0.00	H
	ATOM	373	HA	ASN	A	29146.747	-11.331	-9.228	1.00	0.00	H
	ATOM	374	1HB	ASN	A	29149.620	-10.641	-9.214	1.00	0.00	H
	ATOM	375	2HB	ASN	A	29149.253	-12.343	-8.946	1.00	0.00	H
20	ATOM	376	1HD2	ASN	A	29147.909	-9.774	-10.996	1.00	0.00	H
	ATOM	377	2HD2	ASN	A	29147.987	-10.675	-12.468	1.00	0.00	H
	ATOM	378	N	PRO	A	30148.467	-11.421	-6.372	1.00	0.00	N
	ATOM	379	CA	PRO	A	30148.507	-12.026	-5.039	1.00	0.00	C
	ATOM	380	C	PRO	A	30147.460	-11.429	-4.099	1.00	0.00	C
25	ATOM	381	O	PRO	A	30147.579	-10.276	-3.682	1.00	0.00	O
	ATOM	382	CB	PRO	A	30149.915	-11.691	-4.549	1.00	0.00	C
	ATOM	383	CG	PRO	A	30150.256	-10.414	-5.236	1.00	0.00	C
	ATOM	384	CD	PRO	A	30149.572	-10.463	-6.576	1.00	0.00	C
	ATOM	385	HA	PRO	A	30148.384	-13.098	-5.085	1.00	0.00	H

	ATOM	386	1HB	PRO A	30149.908	-11.575	-3.475	1.00	0.00	H
	ATOM	387	2HB	PRO A	30150.595	-12.482	-4.827	1.00	0.00	H
	ATOM	388	1HG	PRO A	30149.888	-9.578	-4.658	1.00	0.00	H
	ATOM	389	2HG	PRO A	30151.326	-10.340	-5.363	1.00	0.00	H
5	ATOM	390	1HD	PRO A	30149.191	-9.487	-6.840	1.00	0.00	H
	ATOM	391	2HD	PRO A	30150.254	-10.817	-7.334	1.00	0.00	H
	ATOM	392	N	PRO A	31146.417	-12.204	-3.751	1.00	0.00	N
	ATOM	393	CA	PRO A	31145.353	-11.735	-2.857	1.00	0.00	C
	ATOM	394	C	PRO A	31145.844	-11.540	-1.426	1.00	0.00	C
10	ATOM	395	O	PRO A	31145.741	-12.443	-0.595	1.00	0.00	O
	ATOM	396	CB	PRO A	31144.313	-12.857	-2.917	1.00	0.00	C
	ATOM	397	CG	PRO A	31145.088	-14.071	-3.297	1.00	0.00	C
	ATOM	398	CD	PRO A	31146.191	-13.592	-4.199	1.00	0.00	C
	ATOM	399	HA	PRO A	31144.914	-10.815	-3.213	1.00	0.00	H
15	ATOM	400	1HB	PRO A	31143.847	-12.973	-1.949	1.00	0.00	H
	ATOM	401	2HB	PRO A	31143.565	-12.620	-3.658	1.00	0.00	H
	ATOM	402	1HG	PRO A	31145.501	-14.535	-2.413	1.00	0.00	H
	ATOM	403	2HG	PRO A	31144.449	-14.766	-3.823	1.00	0.00	H
	ATOM	404	1HD	PRO A	31147.078	-14.192	-4.061	1.00	0.00	H
20	ATOM	405	2HD	PRO A	31145.872	-13.617	-5.230	1.00	0.00	H
	ATOM	406	N	PHE A	32146.377	-10.356	-1.146	1.00	0.00	N
	ATOM	407	CA	PHE A	32146.885	-10.041	0.185	1.00	0.00	C
	ATOM	408	C	PHE A	32145.947	-9.083	0.912	1.00	0.00	C
	ATOM	409	O	PHE A	32144.998	-8.562	0.324	1.00	0.00	O
25	ATOM	410	CB	PHE A	32148.283	-9.430	0.090	1.00	0.00	C
	ATOM	411	CG	PHE A	32148.404	-8.366	-0.964	1.00	0.00	C
	ATOM	412	CD1	PHE A	32147.687	-7.185	-0.859	1.00	0.00	C
	ATOM	413	CD2	PHE A	32149.233	-8.548	-2.059	1.00	0.00	C
	ATOM	414	CE1	PHE A	32147.796	-6.205	-1.827	1.00	0.00	C

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	ATOM	415	CE2	PHE	A	32149.346	-7.572	-3.030	1.00	0.00	C
	ATOM	416	CZ	PHE	A	32148.626	-6.397	-2.914	1.00	0.00	C
	ATOM	417	H	PHE	A	32146.430	-9.677	-1.850	1.00	0.00	H
	ATOM	418	HA	PHE	A	32146.941	-10.963	0.744	1.00	0.00	H
5	ATOM	419	1HB	PHE	A	32148.540	-8.987	1.040	1.00	0.00	H
	ATOM	420	2HB	PHE	A	32148.994	-10.210	-0.141	1.00	0.00	H
	ATOM	421	HD1	PHE	A	32147.038	-7.032	-0.010	1.00	0.00	H
	ATOM	422	HD2	PHE	A	32149.796	-9.465	-2.151	1.00	0.00	H
	ATOM	423	HE1	PHE	A	32147.232	-5.289	-1.734	1.00	0.00	H
10	ATOM	424	HE2	PHE	A	32149.995	-7.724	-3.879	1.00	0.00	H
	ATOM	425	HZ	PHE	A	32148.712	-5.632	-3.672	1.00	0.00	H
	ATOM	426	N	TYR	A	33146.217	-8.856	2.193	1.00	0.00	N
	ATOM	427	CA	TYR	A	33145.397	-7.958	2.999	1.00	0.00	C
	ATOM	428	C	TYR	A	33146.269	-6.990	3.793	1.00	0.00	C
15	ATOM	429	O	TYR	A	33147.270	-7.387	4.389	1.00	0.00	O
	ATOM	430	CB	TYR	A	33144.511	-8.763	3.952	1.00	0.00	C
	ATOM	431	CG	TYR	A	33143.249	-9.290	3.306	1.00	0.00	C
	ATOM	432	CD1	TYR	A	33142.903	-10.632	3.406	1.00	0.00	C
	ATOM	433	CD2	TYR	A	33142.405	-8.447	2.595	1.00	0.00	C
20	ATOM	434	CE1	TYR	A	33141.751	-11.118	2.817	1.00	0.00	C
	ATOM	435	CE2	TYR	A	33141.251	-8.925	2.003	1.00	0.00	C
	ATOM	436	CZ	TYR	A	33140.929	-10.261	2.116	1.00	0.00	C
	ATOM	437	OH	TYR	A	33139.781	-10.740	1.529	1.00	0.00	O
	ATOM	438	H	TYR	A	33146.987	-9.300	2.605	1.00	0.00	H
25	ATOM	439	HA	TYR	A	33144.769	-7.392	2.329	1.00	0.00	H
	ATOM	440	1HB	TYR	A	33145.069	-9.608	4.325	1.00	0.00	H
	ATOM	441	2HB	TYR	A	33144.222	-8.134	4.780	1.00	0.00	H
	ATOM	442	HD1	TYR	A	33143.549	-11.302	3.956	1.00	0.00	H
	ATOM	443	HD2	TYR	A	33142.661	-7.401	2.507	1.00	0.00	H

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	ATOM	444	HE1	TYR	A	33141.500	-12.165	2.907	1.00	0.00	H
	ATOM	445	HE2	TYR	A	33140.609	-8.253	1.455	1.00	0.00	H
	ATOM	446	HH	TYR	A	33139.736	-10.436	0.620	1.00	0.00	H
	ATOM	447	N	GLY	A	34145.880	-5.719	3.796	1.00	0.00	N
5	ATOM	448	CA	GLY	A	34146.637	-4.715	4.519	1.00	0.00	C
	ATOM	449	C	GLY	A	34145.778	-3.546	4.957	1.00	0.00	C
	ATOM	450	O	GLY	A	34144.551	-3.643	4.984	1.00	0.00	O
	ATOM	451	H	GLY	A	34145.074	-5.462	3.302	1.00	0.00	H
	ATOM	452	1HA	GLY	A	34147.077	-5.172	5.393	1.00	0.00	H
10	ATOM	453	2HA	GLY	A	34147.427	-4.348	3.881	1.00	0.00	H
	ATOM	454	N	VAL	A	35146.423	-2.435	5.301	1.00	0.00	N
	ATOM	455	CA	VAL	A	35145.710	-1.242	5.740	1.00	0.00	C
	ATOM	456	C	VAL	A	35146.363	0.022	5.187	1.00	0.00	C
	ATOM	457	O	VAL	A	35147.577	0.070	4.991	1.00	0.00	O
15	ATOM	458	CB	VAL	A	35145.657	-1.154	7.279	1.00	0.00	C
	ATOM	459	CG1	VAL	A	35147.060	-1.060	7.861	1.00	0.00	C
	ATOM	460	CG2	VAL	A	35144.809	0.029	7.720	1.00	0.00	C
	ATOM	461	H	VAL	A	35147.402	-2.420	5.259	1.00	0.00	H
	ATOM	462	HA	VAL	A	35144.698	-1.304	5.370	1.00	0.00	H
20	ATOM	463	HB	VAL	A	35145.199	-2.057	7.654	1.00	0.00	H
	ATOM	464	1HG1	VAL	A	35147.690	-1.812	7.406	1.00	0.00	H
	ATOM	465	2HG1	VAL	A	35147.020	-1.222	8.927	1.00	0.00	H
	ATOM	466	3HG1	VAL	A	35147.468	-0.080	7.660	1.00	0.00	H
	ATOM	467	1HG2	VAL	A	35143.784	-0.133	7.423	1.00	0.00	H
25	ATOM	468	2HG2	VAL	A	35145.180	0.932	7.257	1.00	0.00	H
	ATOM	469	3HG2	VAL	A	35144.861	0.129	8.795	1.00	0.00	H
	ATOM	470	N	ILE	A	36145.548	1.042	4.939	1.00	0.00	N
	ATOM	471	CA	ILE	A	36146.046	2.306	4.409	1.00	0.00	C
	ATOM	472	C	ILE	A	36146.970	2.992	5.410	1.00	0.00	C

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	ATOM	473	O	ILE A	36146.688	3.027	6.607	1.00	0.00	O
	ATOM	474	CB	ILE A	36144.891	3.262	4.051	1.00	0.00	C
	ATOM	475	CG1	ILE A	36143.876	2.558	3.149	1.00	0.00	C
	ATOM	476	CG2	ILE A	36145.430	4.514	3.374	1.00	0.00	C
5	ATOM	477	CD1	ILE A	36142.709	3.435	2.752	1.00	0.00	C
	ATOM	478	H	ILE A	36144.590	0.943	5.117	1.00	0.00	H
	ATOM	479	HA	ILE A	36146.603	2.093	3.508	1.00	0.00	H
	ATOM	480	HB	ILE A	36144.404	3.561	4.967	1.00	0.00	H
	ATOM	481	1HG1	ILE A	36144.369	2.234	2.246	1.00	0.00	H
10	ATOM	482	2HG1	ILE A	36143.482	1.695	3.667	1.00	0.00	H
	ATOM	483	1HG2	ILE A	36146.162	4.235	2.630	1.00	0.00	H
	ATOM	484	2HG2	ILE A	36145.893	5.152	4.112	1.00	0.00	H
	ATOM	485	3HG2	ILE A	36144.618	5.044	2.898	1.00	0.00	H
	ATOM	486	1HD1	ILE A	36142.535	3.343	1.690	1.00	0.00	H
15	ATOM	487	2HD1	ILE A	36142.935	4.464	2.992	1.00	0.00	H
	ATOM	488	3HD1	ILE A	36141.826	3.126	3.290	1.00	0.00	H
	ATOM	489	N	ARG A	37148.076	3.535	4.910	1.00	0.00	N
	ATOM	490	CA	ARG A	37149.042	4.220	5.761	1.00	0.00	C
	ATOM	491	C	ARG A	37149.240	5.664	5.308	1.00	0.00	C
20	ATOM	492	O	ARG A	37148.974	6.601	6.060	1.00	0.00	O
	ATOM	493	CB	ARG A	37150.382	3.480	5.742	1.00	0.00	C
	ATOM	494	CG	ARG A	37150.258	1.992	6.024	1.00	0.00	C
	ATOM	495	CD	ARG A	37149.607	1.733	7.373	1.00	0.00	C
	ATOM	496	NE	ARG A	37150.302	2.420	8.458	1.00	0.00	N
25	ATOM	497	CZ	ARG A	37149.765	2.653	9.653	1.00	0.00	C
	ATOM	498	NH1	ARG A	37148.527	2.255	9.921	1.00	0.00	N
	ATOM	499	NH2	ARG A	37150.467	3.285	10.584	1.00	0.00	N
	ATOM	500	H	ARG A	37148.246	3.474	3.947	1.00	0.00	H
	ATOM	501	HA	ARG A	37148.656	4.221	6.768	1.00	0.00	H

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	ATOM	502	1HB	ARG A	37150.835	3.605	4.769	1.00	0.00	H
	ATOM	503	2HB	ARG A	37151.030	3.914	6.489	1.00	0.00	H
	ATOM	504	1HG	ARG A	37149.657	1.537	5.251	1.00	0.00	H
	ATOM	505	2HG	ARG A	37151.245	1.553	6.020	1.00	0.00	H
5	ATOM	506	1HD	ARG A	37148.585	2.079	7.337	1.00	0.00	H
	ATOM	507	2HD	ARG A	37149.620	0.670	7.565	1.00	0.00	H
	ATOM	508	HE	ARG A	37151.219	2.724	8.288	1.00	0.00	H
	ATOM	509	1HH1	ARG A	37147.992	1.778	9.224	1.00	0.00	H
	ATOM	510	2HH1	ARG A	37148.129	2.432	10.820	1.00	0.00	H
10	ATOM	511	1HH2	ARG A	37151.400	3.585	10.387	1.00	0.00	H
	ATOM	512	2HH2	ARG A	37150.063	3.460	11.482	1.00	0.00	H
	ATOM	513	N	TRP A	38149.705	5.835	4.075	1.00	0.00	N
	ATOM	514	CA	TRP A	38149.938	7.166	3.525	1.00	0.00	C
	ATOM	515	C	TRP A	38149.254	7.323	2.169	1.00	0.00	C
15	ATOM	516	O	TRP A	38149.360	6.454	1.304	1.00	0.00	O
	ATOM	517	CB	TRP A	38151.441	7.431	3.388	1.00	0.00	C
	ATOM	518	CG	TRP A	38151.763	8.666	2.600	1.00	0.00	C
	ATOM	519	CD1	TRP A	38151.926	9.931	3.086	1.00	0.00	C
	ATOM	520	CD2	TRP A	38151.955	8.752	1.183	1.00	0.00	C
20	ATOM	521	NE1	TRP A	38152.207	10.799	2.058	1.00	0.00	N
	ATOM	522	CE2	TRP A	38152.231	10.098	0.880	1.00	0.00	C
	ATOM	523	CE3	TRP A	38151.921	7.821	0.141	1.00	0.00	C
	ATOM	524	CZ2	TRP A	38152.471	10.535	-0.422	1.00	0.00	C
	ATOM	525	CZ3	TRP A	38152.159	8.254	-1.149	1.00	0.00	C
25	ATOM	526	CH2	TRP A	38152.431	9.601	-1.420	1.00	0.00	C
	ATOM	527	H	TRP A	38149.898	5.049	3.523	1.00	0.00	H
	ATOM	528	HA	TRP A	38149.516	7.885	4.211	1.00	0.00	H
	ATOM	529	1HB	TRP A	38151.871	7.544	4.373	1.00	0.00	H
	ATOM	530	2HB	TRP A	38151.904	6.589	2.894	1.00	0.00	H

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	ATOM	531	HD1	TRP	A	38151.842	10.198	4.129	1.00	0.00	H
	ATOM	532	HE1	TRP	A	38152.366	11.761	2.153	1.00	0.00	H
	ATOM	533	HE3	TRP	A	38151.713	6.779	0.331	1.00	0.00	H
	ATOM	534	HZ2	TRP	A	38152.679	11.570	-0.648	1.00	0.00	H
5	ATOM	535	HZ3	TRP	A	38152.138	7.548	-1.966	1.00	0.00	H
	ATOM	536	HH2	TRP	A	38152.612	9.895	-2.444	1.00	0.00	H
	ATOM	537	N	ILE	A	39148.559	8.442	1.993	1.00	0.00	N
	ATOM	538	CA	ILE	A	39147.864	8.725	0.744	1.00	0.00	C
	ATOM	539	C	ILE	A	39148.314	10.064	0.170	1.00	0.00	C
10	ATOM	540	O	ILE	A	39147.947	11.122	0.681	1.00	0.00	O
	ATOM	541	CB	ILE	A	39146.337	8.750	0.942	1.00	0.00	C
	ATOM	542	CG1	ILE	A	39145.876	7.502	1.698	1.00	0.00	C
	ATOM	543	CG2	ILE	A	39145.630	8.855	-0.400	1.00	0.00	C
	ATOM	544	CD1	ILE	A	39144.499	7.639	2.309	1.00	0.00	C
15	ATOM	545	H	ILE	A	39148.519	9.097	2.721	1.00	0.00	H
	ATOM	546	HA	ILE	A	39148.104	7.941	0.041	1.00	0.00	H
	ATOM	547	HB	ILE	A	39146.085	9.626	1.522	1.00	0.00	H
	ATOM	548	1HG1	ILE	A	39145.854	6.665	1.016	1.00	0.00	H
	ATOM	549	2HG1	ILE	A	39146.575	7.294	2.494	1.00	0.00	H
20	ATOM	550	1HG2	ILE	A	39146.098	9.626	-0.994	1.00	0.00	H
	ATOM	551	2HG2	ILE	A	39144.590	9.104	-0.243	1.00	0.00	H
	ATOM	552	3HG2	ILE	A	39145.699	7.909	-0.918	1.00	0.00	H
	ATOM	553	1HD1	ILE	A	39144.001	8.499	1.886	1.00	0.00	H
	ATOM	554	2HD1	ILE	A	39144.590	7.764	3.378	1.00	0.00	H
25	ATOM	555	3HD1	ILE	A	39143.922	6.750	2.099	1.00	0.00	H
	ATOM	556	N	GLY	A	40149.115	10.011	-0.889	1.00	0.00	N
	ATOM	557	CA	GLY	A	40149.604	11.231	-1.504	1.00	0.00	C
	ATOM	558	C	GLY	A	40150.212	10.994	-2.873	1.00	0.00	C
	ATOM	559	O	GLY	A	40150.068	9.916	-3.447	1.00	0.00	O



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	ATOM	560	H	GLY A	40149.379	9.141	-1.252	1.00	0.00	H
	ATOM	561	1HA	GLY A	40148.785	11.925	-1.603	1.00	0.00	H
	ATOM	562	2HA	GLY A	40150.353	11.667	-0.862	1.00	0.00	H
	ATOM	563	N	GLN A	41150.892	12.010	-3.394	1.00	0.00	N
5	ATOM	564	CA	GLN A	41151.525	11.919	-4.703	1.00	0.00	C
	ATOM	565	C	GLN A	41153.000	12.311	-4.618	1.00	0.00	C
	ATOM	566	O	GLN A	41153.325	13.461	-4.321	1.00	0.00	O
	ATOM	567	CB	GLN A	41150.799	12.825	-5.696	1.00	0.00	C
	ATOM	568	CG	GLN A	41149.288	12.653	-5.685	1.00	0.00	C
10	ATOM	569	CD	GLN A	41148.551	13.969	-5.825	1.00	0.00	C
	ATOM	570	OE1	GLN A	41148.474	14.755	-4.881	1.00	0.00	O
	ATOM	571	NE2	GLN A	41148.004	14.216	-7.009	1.00	0.00	N
	ATOM	572	H	GLN A	41150.968	12.844	-2.886	1.00	0.00	H
	ATOM	573	HA	GLN A	41151.451	10.897	-5.040	1.00	0.00	H
15	ATOM	574	1HB	GLN A	41151.023	13.853	-5.456	1.00	0.00	H
	ATOM	575	2HB	GLN A	41151.158	12.610	-6.690	1.00	0.00	H
	ATOM	576	1HG	GLN A	41149.005	12.010	-6.504	1.00	0.00	H
	ATOM	577	2HG	GLN A	41148.999	12.192	-4.752	1.00	0.00	H
	ATOM	578	1HE2	GLN A	41148.106	13.544	-7.715	1.00	0.00	H
20	ATOM	579	2HE2	GLN A	41147.522	15.061	-7.130	1.00	0.00	H
	ATOM	580	N	PRO A	42153.917	11.361	-4.876	1.00	0.00	N
	ATOM	581	CA	PRO A	42155.360	11.623	-4.822	1.00	0.00	C
	ATOM	582	C	PRO A	42155.779	12.746	-5.766	1.00	0.00	C
	ATOM	583	O	PRO A	42155.066	13.071	-6.715	1.00	0.00	O
25	ATOM	584	CB	PRO A	42155.986	10.295	-5.261	1.00	0.00	C
	ATOM	585	CG	PRO A	42154.937	9.272	-5.000	1.00	0.00	C
	ATOM	586	CD	PRO A	42153.626	9.962	-5.237	1.00	0.00	C
	ATOM	587	HA	PRO A	42155.680	11.861	-3.819	1.00	0.00	H
	ATOM	588	1HB	PRO A	42156.239	10.344	-6.311	1.00	0.00	H

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	ATOM	589	2HB	PRO A	42156.877	10.105	-4.680	1.00	0.00	H
	ATOM	590	1HG	PRO A	42155.053	8.442	-5.681	1.00	0.00	H
	ATOM	591	2HG	PRO A	42155.002	8.931	-3.976	1.00	0.00	H
	ATOM	592	1HD	PRO A	42153.340	9.882	-6.276	1.00	0.00	H
5	ATOM	593	2HD	PRO A	42152.859	9.550	-4.598	1.00	0.00	H
	ATOM	594	N	PRO A	43156.951	13.355	-5.515	1.00	0.00	N
	ATOM	595	CA	PRO A	43157.466	14.446	-6.347	1.00	0.00	C
	ATOM	596	C	PRO A	43157.941	13.958	-7.711	1.00	0.00	C
	ATOM	597	O	PRO A	43159.115	13.636	-7.891	1.00	0.00	O
10	ATOM	598	CB	PRO A	43158.643	14.986	-5.535	1.00	0.00	C
	ATOM	599	CG	PRO A	43159.098	13.830	-4.714	1.00	0.00	C
	ATOM	600	CD	PRO A	43157.863	13.027	-4.403	1.00	0.00	C
	ATOM	601	HA	PRO A	43156.729	15.225	-6.481	1.00	0.00	H
	ATOM	602	1HB	PRO A	43159.419	15.323	-6.207	1.00	0.00	H
15	ATOM	603	2HB	PRO A	43158.312	15.805	-4.915	1.00	0.00	H
	ATOM	604	1HG	PRO A	43159.800	13.233	-5.277	1.00	0.00	H
	ATOM	605	2HG	PRO A	43159.553	14.185	-3.800	1.00	0.00	H
	ATOM	606	1HD	PRO A	43158.092	11.973	-4.391	1.00	0.00	H
	ATOM	607	2HD	PRO A	43157.442	13.334	-3.457	1.00	0.00	H
20	ATOM	608	N	GLY A	44157.022	13.906	-8.667	1.00	0.00	N
	ATOM	609	CA	GLY A	44157.369	13.457	-10.002	1.00	0.00	C
	ATOM	610	C	GLY A	44156.170	12.942	-10.771	1.00	0.00	C
	ATOM	611	O	GLY A	44155.925	13.359	-11.903	1.00	0.00	O
	ATOM	612	H	GLY A	44156.101	14.175	-8.467	1.00	0.00	H
25	ATOM	613	1HA	GLY A	44157.804	14.281	-10.546	1.00	0.00	H
	ATOM	614	2HA	GLY A	44158.100	12.664	-9.924	1.00	0.00	H
	ATOM	615	N	LEU A	45155.420	12.034	-10.156	1.00	0.00	N
	ATOM	616	CA	LEU A	45154.240	11.463	-10.793	1.00	0.00	C
	ATOM	617	C	LEU A	45152.994	11.726	-9.956	1.00	0.00	C

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	ATOM	618	O	LEU A	45152.847	11.184	-8.860	1.00	0.00	O
	ATOM	619	CB	LEU A	45154.422	9.959	-10.999	1.00	0.00	C
	ATOM	620	CG	LEU A	45154.906	9.191	-9.766	1.00	0.00	C
	ATOM	621	CD1	LEU A	45154.533	7.718	-9.873	1.00	0.00	C
5	ATOM	622	CD2	LEU A	45156.411	9.354	-9.592	1.00	0.00	C
	ATOM	623	H	LEU A	45155.664	11.743	-9.251	1.00	0.00	H
	ATOM	624	HA	LEU A	45154.119	11.938	-11.754	1.00	0.00	H
	ATOM	625	1HB	LEU A	45153.476	9.542	-11.310	1.00	0.00	H
	ATOM	626	2HB	LEU A	45155.140	9.810	-11.791	1.00	0.00	H
10	ATOM	627	HG	LEU A	45154.421	9.594	-8.889	1.00	0.00	H
	ATOM	628	1HD1	LEU A	45155.414	7.111	-9.728	1.00	0.00	H
	ATOM	629	2HD1	LEU A	45154.117	7.521	-10.849	1.00	0.00	H
	ATOM	630	3HD1	LEU A	45153.803	7.477	-9.114	1.00	0.00	H
	ATOM	631	1HD2	LEU A	45156.770	10.126	-10.257	1.00	0.00	H
15	ATOM	632	2HD2	LEU A	45156.904	8.422	-9.824	1.00	0.00	H
	ATOM	633	3HD2	LEU A	45156.626	9.631	-8.571	1.00	0.00	H
	ATOM	634	N	ASN A	46152.096	12.558	-10.474	1.00	0.00	N
	ATOM	635	CA	ASN A	46150.868	12.879	-9.761	1.00	0.00	C
	ATOM	636	C	ASN A	46149.905	11.697	-9.796	1.00	0.00	C
20	ATOM	637	O	ASN A	46149.319	11.390	-10.834	1.00	0.00	O
	ATOM	638	CB	ASN A	46150.205	14.113	-10.378	1.00	0.00	C
	ATOM	639	CG	ASN A	46149.419	14.917	-9.361	1.00	0.00	C
	ATOM	640	OD1	ASN A	46148.199	15.047	-9.464	1.00	0.00	O
	ATOM	641	ND2	ASN A	46150.117	15.463	-8.372	1.00	0.00	N
25	ATOM	642	H	ASN A	46152.264	12.961	-11.350	1.00	0.00	H
	ATOM	643	HA	ASN A	46151.123	13.092	-8.733	1.00	0.00	H
	ATOM	644	1HB	ASN A	46150.967	14.749	-10.800	1.00	0.00	H
	ATOM	645	2HB	ASN A	46149.530	13.797	-11.160	1.00	0.00	H
	ATOM	646	1HD2	ASN A	46151.086	15.318	-8.353	1.00	0.00	H

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	ATOM	647	2HD2	ASN	A	46149.634	15.989	-7.700	1.00	0.00	H
	ATOM	648	N	GLU	A	47149.747	11.040	-8.654	1.00	0.00	N
	ATOM	649	CA	GLU	A	47148.857	9.891	-8.546	1.00	0.00	C
	ATOM	650	C	GLU	A	47148.612	9.532	-7.084	1.00	0.00	C
5	ATOM	651	O	GLU	A	47149.551	9.232	-6.346	1.00	0.00	O
	ATOM	652	CB	GLU	A	47149.445	8.687	-9.288	1.00	0.00	C
	ATOM	653	CG	GLU	A	47150.953	8.556	-9.150	1.00	0.00	C
	ATOM	654	CD	GLU	A	47151.556	7.633	-10.192	1.00	0.00	C
	ATOM	655	OE1	GLU	A	47151.850	6.467	-9.853	1.00	0.00	O
10	ATOM	656	OE2	GLU	A	47151.731	8.076	-11.347	1.00	0.00	O
	ATOM	657	H	GLU	A	47150.243	11.335	-7.862	1.00	0.00	H
	ATOM	658	HA	GLU	A	47147.916	10.158	-9.000	1.00	0.00	H
	ATOM	659	1HB	GLU	A	47148.991	7.786	-8.902	1.00	0.00	H
	ATOM	660	2HB	GLU	A	47149.208	8.776	-10.338	1.00	0.00	H
15	ATOM	661	1HG	GLU	A	47151.398	9.534	-9.258	1.00	0.00	H
	ATOM	662	2HG	GLU	A	47151.182	8.166	-8.169	1.00	0.00	H
	ATOM	663	N	VAL	A	48147.351	9.557	-6.671	1.00	0.00	N
	ATOM	664	CA	VAL	A	48146.997	9.226	-5.298	1.00	0.00	C
	ATOM	665	C	VAL	A	48147.343	7.775	-4.989	1.00	0.00	C
20	ATOM	666	O	VAL	A	48146.591	6.861	-5.329	1.00	0.00	O
	ATOM	667	CB	VAL	A	48145.499	9.456	-5.029	1.00	0.00	C
	ATOM	668	CG1	VAL	A	48145.192	9.299	-3.547	1.00	0.00	C
	ATOM	669	CG2	VAL	A	48145.072	10.828	-5.527	1.00	0.00	C
	ATOM	670	H	VAL	A	48146.643	9.799	-7.304	1.00	0.00	H
25	ATOM	671	HA	VAL	A	48147.567	9.869	-4.641	1.00	0.00	H
	ATOM	672	HB	VAL	A	48144.938	8.708	-5.570	1.00	0.00	H
	ATOM	673	1HG1	VAL	A	48144.163	9.571	-3.362	1.00	0.00	H
	ATOM	674	2HG1	VAL	A	48145.843	9.943	-2.974	1.00	0.00	H
	ATOM	675	3HG1	VAL	A	48145.351	8.273	-3.252	1.00	0.00	H

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	ATOM	676	1HG2	VAL	A	48144.130	11.099	-5.073	1.00	0.00	H
	ATOM	677	2HG2	VAL	A	48144.958	10.801	-6.601	1.00	0.00	H
	ATOM	678	3HG2	VAL	A	48145.822	11.558	-5.263	1.00	0.00	H
	ATOM	679	N	LEU	A	49148.487	7.569	-4.345	1.00	0.00	N
5	ATOM	680	CA	LEU	A	49148.934	6.227	-3.994	1.00	0.00	C
	ATOM	681	C	LEU	A	49148.788	5.983	-2.498	1.00	0.00	C
	ATOM	682	O	LEU	A	49149.449	6.633	-1.687	1.00	0.00	O
	ATOM	683	CB	LEU	A	49150.390	6.023	-4.417	1.00	0.00	C
	ATOM	684	CG	LEU	A	49150.667	6.237	-5.906	1.00	0.00	C
10	ATOM	685	CD1	LEU	A	49152.113	6.656	-6.125	1.00	0.00	C
	ATOM	686	CD2	LEU	A	49150.352	4.974	-6.693	1.00	0.00	C
	ATOM	687	H	LEU	A	49149.045	8.336	-4.102	1.00	0.00	H
	ATOM	688	HA	LEU	A	49148.313	5.521	-4.524	1.00	0.00	H
	ATOM	689	1HB	LEU	A	49151.005	6.711	-3.855	1.00	0.00	H
15	ATOM	690	2HB	LEU	A	49150.680	5.015	-4.162	1.00	0.00	H
	ATOM	691	HG	LEU	A	49150.032	7.029	-6.275	1.00	0.00	H
	ATOM	692	1HD1	LEU	A	49152.177	7.734	-6.140	1.00	0.00	H
	ATOM	693	2HD1	LEU	A	49152.464	6.261	-7.067	1.00	0.00	H
	ATOM	694	3HD1	LEU	A	49152.725	6.271	-5.323	1.00	0.00	H
20	ATOM	695	1HD2	LEU	A	49151.242	4.367	-6.770	1.00	0.00	H
	ATOM	696	2HD2	LEU	A	49150.012	5.241	-7.682	1.00	0.00	H
	ATOM	697	3HD2	LEU	A	49149.579	4.416	-6.185	1.00	0.00	H
	ATOM	698	N	ALA	A	50147.919	5.047	-2.139	1.00	0.00	N
	ATOM	699	CA	ALA	A	50147.689	4.724	-0.738	1.00	0.00	C
25	ATOM	700	C	ALA	A	50148.600	3.591	-0.281	1.00	0.00	C
	ATOM	701	O	ALA	A	50148.489	2.461	-0.758	1.00	0.00	O
	ATOM	702	CB	ALA	A	50146.230	4.357	-0.514	1.00	0.00	C
	ATOM	703	H	ALA	A	50147.421	4.564	-2.831	1.00	0.00	H
	ATOM	704	HA	ALA	A	50147.909	5.608	-0.156	1.00	0.00	H

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	ATOM	705	1HB	ALA A	50145.901	4.754	0.435	1.00	0.00	H
	ATOM	706	2HB	ALA A	50146.126	3.282	-0.509	1.00	0.00	H
	ATOM	707	3HB	ALA A	50145.628	4.775	-1.307	1.00	0.00	H
	ATOM	708	N	GLY A	51149.502	3.899	0.645	1.00	0.00	N
5	ATOM	709	CA	GLY A	51150.420	2.895	1.151	1.00	0.00	C
	ATOM	710	C	GLY A	51149.722	1.838	1.983	1.00	0.00	C
	ATOM	711	O	GLY A	51149.241	2.120	3.081	1.00	0.00	O
	ATOM	712	H	GLY A	51149.545	4.816	0.988	1.00	0.00	H
	ATOM	713	1HA	GLY A	51150.907	2.415	0.315	1.00	0.00	H
10	ATOM	714	2HA	GLY A	51151.168	3.381	1.759	1.00	0.00	H
	ATOM	715	N	LEU A	52149.667	0.617	1.461	1.00	0.00	N
	ATOM	716	CA	LEU A	52149.023	-0.486	2.164	1.00	0.00	C
	ATOM	717	C	LEU A	52150.052	-1.340	2.897	1.00	0.00	C
	ATOM	718	O	LEU A	52151.062	-1.744	2.320	1.00	0.00	O
15	ATOM	719	CB	LEU A	52148.231	-1.352	1.183	1.00	0.00	C
	ATOM	720	CG	LEU A	52146.974	-0.695	0.609	1.00	0.00	C
	ATOM	721	CD1	LEU A	52146.452	-1.490	-0.579	1.00	0.00	C
	ATOM	722	CD2	LEU A	52145.903	-0.569	1.680	1.00	0.00	C
	ATOM	723	H	LEU A	52150.068	0.453	0.582	1.00	0.00	H
20	ATOM	724	HA	LEU A	52148.342	-0.064	2.889	1.00	0.00	H
	ATOM	725	1HB	LEU A	52148.882	-1.616	0.362	1.00	0.00	H
	ATOM	726	2HB	LEU A	52147.935	-2.258	1.692	1.00	0.00	H
	ATOM	727	HG	LEU A	52147.222	0.298	0.262	1.00	0.00	H
	ATOM	728	1HD1	LEU A	52145.685	-2.174	-0.246	1.00	0.00	H
25	ATOM	729	2HD1	LEU A	52147.263	-2.047	-1.023	1.00	0.00	H
	ATOM	730	3HD1	LEU A	52146.037	-0.812	-1.311	1.00	0.00	H
	ATOM	731	1HD2	LEU A	52145.344	0.343	1.526	1.00	0.00	H
	ATOM	732	2HD2	LEU A	52146.368	-0.544	2.655	1.00	0.00	H
	ATOM	733	3HD2	LEU A	52145.234	-1.414	1.622	1.00	0.00	H

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	ATOM	734	N	GLU A	53149.790	-1.612	4.171	1.00	0.00	N
	ATOM	735	CA	GLU A	53150.694	-2.418	4.983	1.00	0.00	C
	ATOM	736	C	GLU A	53150.200	-3.859	5.076	1.00	0.00	C
	ATOM	737	O	GLU A	53149.205	-4.142	5.744	1.00	0.00	O
5	ATOM	738	CB	GLU A	53150.826	-1.819	6.384	1.00	0.00	C
	ATOM	739	CG	GLU A	53151.783	-2.584	7.284	1.00	0.00	C
	ATOM	740	CD	GLU A	53151.317	-2.629	8.726	1.00	0.00	C
	ATOM	741	OE1	GLU A	53151.200	-1.550	9.345	1.00	0.00	O
	ATOM	742	OE2	GLU A	53151.071	-3.742	9.236	1.00	0.00	O
10	ATOM	743	H	GLU A	53148.969	-1.262	4.575	1.00	0.00	H
	ATOM	744	HA	GLU A	53151.662	-2.413	4.505	1.00	0.00	H
	ATOM	745	1HB	GLU A	53151.182	-0.804	6.297	1.00	0.00	H
	ATOM	746	2HB	GLU A	53149.854	-1.812	6.853	1.00	0.00	H
	ATOM	747	1HG	GLU A	53151.870	-3.597	6.919	1.00	0.00	H
15	ATOM	748	2HG	GLU A	53152.751	-2.105	7.248	1.00	0.00	H
	ATOM	749	N	LEU A	54150.903	-4.765	4.405	1.00	0.00	N
	ATOM	750	CA	LEU A	54150.537	-6.176	4.412	1.00	0.00	C
	ATOM	751	C	LEU A	54150.705	-6.775	5.805	1.00	0.00	C
	ATOM	752	O	LEU A	54151.577	-6.360	6.568	1.00	0.00	O
20	ATOM	753	CB	LEU A	54151.389	-6.950	3.404	1.00	0.00	C
	ATOM	754	CG	LEU A	54151.447	-6.342	2.002	1.00	0.00	C
	ATOM	755	CD1	LEU A	54152.766	-6.680	1.327	1.00	0.00	C
	ATOM	756	CD2	LEU A	54150.276	-6.829	1.162	1.00	0.00	C
	ATOM	757	H	LEU A	54151.686	-4.477	3.891	1.00	0.00	H
25	ATOM	758	HA	LEU A	54149.498	-6.250	4.124	1.00	0.00	H
	ATOM	759	1HB	LEU A	54152.396	-7.013	3.790	1.00	0.00	H
	ATOM	760	2HB	LEU A	54150.990	-7.951	3.321	1.00	0.00	H
	ATOM	761	HG	LEU A	54151.378	-5.266	2.081	1.00	0.00	H
	ATOM	762	1HD1	LEU A	54153.136	-7.620	1.710	1.00	0.00	H

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	ATOM	763	2HD1	LEU A	54153.485	-5.901	1.531	1.00	0.00	H
	ATOM	764	3HD1	LEU A	54152.615	-6.761	0.261	1.00	0.00	H
	ATOM	765	1HD2	LEU A	54149.455	-7.099	1.811	1.00	0.00	H
	ATOM	766	2HD2	LEU A	54150.578	-7.692	0.589	1.00	0.00	H
5	ATOM	767	3HD2	LEU A	54149.962	-6.043	0.492	1.00	0.00	H
	ATOM	768	N	GLU A	55149.864	-7.752	6.128	1.00	0.00	N
	ATOM	769	CA	GLU A	55149.920	-8.408	7.429	1.00	0.00	C
	ATOM	770	C	GLU A	55151.075	-9.402	7.489	1.00	0.00	C
	ATOM	771	O	GLU A	55151.677	-9.606	8.543	1.00	0.00	O
10	ATOM	772	CB	GLU A	55148.600	-9.124	7.719	1.00	0.00	C
	ATOM	773	CG	GLU A	55147.559	-8.237	8.381	1.00	0.00	C
	ATOM	774	CD	GLU A	55146.145	-8.576	7.952	1.00	0.00	C
	ATOM	775	OE1	GLU A	55145.281	-7.675	7.989	1.00	0.00	O
	ATOM	776	OE2	GLU A	55145.902	-9.743	7.576	1.00	0.00	O
15	ATOM	777	H	GLU A	55149.191	-8.038	5.477	1.00	0.00	H
	ATOM	778	HA	GLU A	55150.077	-7.646	8.178	1.00	0.00	H
	ATOM	779	1HB	GLU A	55148.191	-9.491	6.789	1.00	0.00	H
	ATOM	780	2HB	GLU A	55148.794	-9.962	8.371	1.00	0.00	H
	ATOM	781	1HG	GLU A	55147.631	-8.356	9.452	1.00	0.00	H
20	ATOM	782	2HG	GLU A	55147.762	-7.209	8.120	1.00	0.00	H
	ATOM	783	N	ASP A	56151.380	-10.017	6.351	1.00	0.00	N
	ATOM	784	CA	ASP A	56152.464	-10.989	6.275	1.00	0.00	C
	ATOM	785	C	ASP A	56153.720	-10.358	5.682	1.00	0.00	C
	ATOM	786	O	ASP A	56153.639	-9.461	4.844	1.00	0.00	O
25	ATOM	787	CB	ASP A	56152.038	-12.194	5.434	1.00	0.00	C
	ATOM	788	CG	ASP A	56152.656	-13.489	5.924	1.00	0.00	C
	ATOM	789	OD1	ASP A	56151.930	-14.502	5.999	1.00	0.00	O
	ATOM	790	OD2	ASP A	56153.866	-13.489	6.233	1.00	0.00	O
	ATOM	791	H	ASP A	56150.865	-9.811	5.544	1.00	0.00	H



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	ATOM	792	HA	ASP	A	56152.682	-11.322	7.278	1.00	0.00	H
	ATOM	793	1HB	ASP	A	56150.963	-12.292	5.474	1.00	0.00	H
	ATOM	794	2HB	ASP	A	56152.343	-12.036	4.409	1.00	0.00	H
	ATOM	795	N	GLU	A	57154.880	-10.835	6.122	1.00	0.00	N
5	ATOM	796	CA	GLU	A	57156.153	-10.318	5.635	1.00	0.00	C
	ATOM	797	C	GLU	A	57156.464	-10.862	4.244	1.00	0.00	C
	ATOM	798	O	GLU	A	57157.189	-11.845	4.098	1.00	0.00	O
	ATOM	799	CB	GLU	A	57157.281	-10.684	6.601	1.00	0.00	C
	ATOM	800	CG	GLU	A	57157.059	-10.172	8.016	1.00	0.00	C
10	ATOM	801	CD	GLU	A	57156.643	-11.271	8.975	1.00	0.00	C
	ATOM	802	OE1	GLU	A	57155.525	-11.806	8.817	1.00	0.00	O
	ATOM	803	OE2	GLU	A	57157.435	-11.596	9.885	1.00	0.00	O
	ATOM	804	H	GLU	A	57154.880	-11.552	6.790	1.00	0.00	H
	ATOM	805	HA	GLU	A	57156.074	-9.242	5.579	1.00	0.00	H
15	ATOM	806	1HB	GLU	A	57157.370	-11.760	6.641	1.00	0.00	H
	ATOM	807	2HB	GLU	A	57158.206	-10.268	6.231	1.00	0.00	H
	ATOM	808	1HG	GLU	A	57157.977	-9.732	8.374	1.00	0.00	H
	ATOM	809	2HG	GLU	A	57156.284	-9.419	7.995	1.00	0.00	H
	ATOM	810	N	CYS	A	58155.911	-10.214	3.224	1.00	0.00	N
20	ATOM	811	CA	CYS	A	58156.129	-10.631	1.844	1.00	0.00	C
	ATOM	812	C	CYS	A	58157.505	-10.192	1.354	1.00	0.00	C
	ATOM	813	O	CYS	A	58157.859	-9.016	1.437	1.00	0.00	O
	ATOM	814	CB	CYS	A	58155.043	-10.051	0.935	1.00	0.00	C
	ATOM	815	SG	CYS	A	58153.516	-11.020	0.901	1.00	0.00	S
25	ATOM	816	H	CYS	A	58155.341	-9.436	3.404	1.00	0.00	H
	ATOM	817	HA	CYS	A	58156.076	-11.709	1.812	1.00	0.00	H
	ATOM	818	1HB	CYS	A	58154.793	-9.057	1.275	1.00	0.00	H
	ATOM	819	2HB	CYS	A	58155.420	-9.996	-0.075	1.00	0.00	H
	ATOM	820	HG	CYS	A	58153.511	-11.593	1.672	1.00	0.00	H

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	ATOM	821	N	ALA A	59158.278	-11.145	0.842	1.00	0.00	N
	ATOM	822	CA	ALA A	59159.615	-10.857	0.338	1.00	0.00	C
	ATOM	823	C	ALA A	59159.552	-10.057	-0.958	1.00	0.00	C
	ATOM	824	O	ALA A	59159.080	-10.551	-1.981	1.00	0.00	O
5	ATOM	825	CB	ALA A	59160.388	-12.149	0.126	1.00	0.00	C
	ATOM	826	H	ALA A	59157.939	-12.064	0.802	1.00	0.00	H
	ATOM	827	HA	ALA A	59160.133	-10.274	1.085	1.00	0.00	H
	ATOM	828	1HB	ALA A	59159.764	-12.860	-0.395	1.00	0.00	H
	ATOM	829	2HB	ALA A	59160.677	-12.557	1.084	1.00	0.00	H
10	ATOM	830	3HB	ALA A	59161.272	-11.948	-0.460	1.00	0.00	H
	ATOM	831	N	GLY A	60160.031	-8.818	-0.907	1.00	0.00	N
	ATOM	832	CA	GLY A	60160.020	-7.970	-2.084	1.00	0.00	C
	ATOM	833	C	GLY A	60159.553	-6.560	-1.778	1.00	0.00	C
	ATOM	834	O	GLY A	60159.945	-5.608	-2.455	1.00	0.00	O
15	ATOM	835	H	GLY A	60160.396	-8.478	-0.063	1.00	0.00	H
	ATOM	836	1HA	GLY A	60161.020	-7.926	-2.491	1.00	0.00	H
	ATOM	837	2HA	GLY A	60159.362	-8.403	-2.821	1.00	0.00	H
	ATOM	838	N	CYS A	61158.713	-6.425	-0.757	1.00	0.00	N
	ATOM	839	CA	CYS A	61158.192	-5.122	-0.363	1.00	0.00	C
20	ATOM	840	C	CYS A	61159.189	-4.380	0.519	1.00	0.00	C
	ATOM	841	O	CYS A	61160.222	-4.931	0.904	1.00	0.00	O
	ATOM	842	CB	CYS A	61156.861	-5.283	0.375	1.00	0.00	C
	ATOM	843	SG	CYS A	61155.608	-6.197	-0.553	1.00	0.00	S
	ATOM	844	H	CYS A	61158.438	-7.221	-0.257	1.00	0.00	H
25	ATOM	845	HA	CYS A	61158.026	-4.545	-1.262	1.00	0.00	H
	ATOM	846	1HB	CYS A	61157.035	-5.812	1.301	1.00	0.00	H
	ATOM	847	2HB	CYS A	61156.460	-4.305	0.595	1.00	0.00	H
	ATOM	848	HG	CYS A	61154.811	-5.662	-0.582	1.00	0.00	H
	ATOM	849	N	THR A	62158.876	-3.128	0.835	1.00	0.00	N

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	ATOM	850	CA	THR A	62159.746	-2.310	1.673	1.00	0.00	C
	ATOM	851	C	THR A	62159.171	-2.169	3.078	1.00	0.00	C
	ATOM	852	O	THR A	62158.132	-2.748	3.397	1.00	0.00	O
	ATOM	853	CB	THR A	62159.940	-0.929	1.047	1.00	0.00	C
5	ATOM	854	OG1	THR A	62158.694	-0.283	0.860	1.00	0.00	O
	ATOM	855	CG2	THR A	62160.641	-0.973	-0.294	1.00	0.00	C
	ATOM	856	H	THR A	62158.040	-2.744	0.498	1.00	0.00	H
	ATOM	857	HA	THR A	62160.704	-2.805	1.737	1.00	0.00	H
	ATOM	858	HB	THR A	62160.540	-0.325	1.712	1.00	0.00	H
10	ATOM	859	HG1	THR A	62158.840	0.602	0.518	1.00	0.00	H
	ATOM	860	1HG2	THR A	62160.440	-1.919	-0.774	1.00	0.00	H
	ATOM	861	2HG2	THR A	62161.705	-0.862	-0.148	1.00	0.00	H
	ATOM	862	3HG2	THR A	62160.277	-0.169	-0.917	1.00	0.00	H
	ATOM	863	N	ASP A	63159.853	-1.394	3.916	1.00	0.00	N
15	ATOM	864	CA	ASP A	63159.410	-1.175	5.289	1.00	0.00	C
	ATOM	865	C	ASP A	63158.661	0.148	5.414	1.00	0.00	C
	ATOM	866	O	ASP A	63158.703	0.800	6.457	1.00	0.00	O
	ATOM	867	CB	ASP A	63160.606	-1.189	6.241	1.00	0.00	C
	ATOM	868	CG	ASP A	63161.704	-0.240	5.805	1.00	0.00	C
20	ATOM	869	OD1	ASP A	63161.752	0.893	6.328	1.00	0.00	O
	ATOM	870	OD2	ASP A	63162.517	-0.629	4.939	1.00	0.00	O
	ATOM	871	H	ASP A	63160.674	-0.958	3.604	1.00	0.00	H
	ATOM	872	HA	ASP A	63158.741	-1.980	5.553	1.00	0.00	H
	ATOM	873	1HB	ASP A	63160.276	-0.899	7.227	1.00	0.00	H
25	ATOM	874	2HB	ASP A	63161.013	-2.189	6.282	1.00	0.00	H
	ATOM	875	N	GLY A	64157.976	0.538	4.344	1.00	0.00	N
	ATOM	876	CA	GLY A	64157.227	1.781	4.356	1.00	0.00	C
	ATOM	877	C	GLY A	64157.980	2.918	3.692	1.00	0.00	C
	ATOM	878	O	GLY A	64158.006	4.037	4.204	1.00	0.00	O

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	ATOM	879	H	GLY A	64157.978	-0.022	3.540	1.00	0.00	H
	ATOM	880	1HA	GLY A	64156.292	1.631	3.836	1.00	0.00	H
	ATOM	881	2HA	GLY A	64157.018	2.053	5.380	1.00	0.00	H
	ATOM	882	N	THR A	65158.594	2.630	2.549	1.00	0.00	N
5	ATOM	883	CA	THR A	65159.351	3.636	1.814	1.00	0.00	C
	ATOM	884	C	THR A	65159.077	3.536	0.317	1.00	0.00	C
	ATOM	885	O	THR A	65159.346	2.511	-0.307	1.00	0.00	O
	ATOM	886	CB	THR A	65160.848	3.475	2.081	1.00	0.00	C
	ATOM	887	OG1	THR A	65161.266	2.148	1.810	1.00	0.00	O
10	ATOM	888	CG2	THR A	65161.239	3.795	3.508	1.00	0.00	C
	ATOM	889	H	THR A	65158.536	1.720	2.192	1.00	0.00	H
	ATOM	890	HA	THR A	65159.035	4.608	2.162	1.00	0.00	H
	ATOM	891	HB	THR A	65161.394	4.143	1.431	1.00	0.00	H
	ATOM	892	HG1	THR A	65161.056	1.927	0.900	1.00	0.00	H
15	ATOM	893	1HG2	THR A	65160.578	4.555	3.900	1.00	0.00	H
	ATOM	894	2HG2	THR A	65162.256	4.158	3.530	1.00	0.00	H
	ATOM	895	3HG2	THR A	65161.162	2.904	4.112	1.00	0.00	H
	ATOM	896	N	PHE A	66158.540	4.610	-0.254	1.00	0.00	N
	ATOM	897	CA	PHE A	66158.230	4.645	-1.678	1.00	0.00	C
20	ATOM	898	C	PHE A	66159.285	5.435	-2.446	1.00	0.00	C
	ATOM	899	O	PHE A	66159.348	6.660	-2.351	1.00	0.00	O
	ATOM	900	CB	PHE A	66156.848	5.261	-1.905	1.00	0.00	C
	ATOM	901	CG	PHE A	66156.258	4.935	-3.248	1.00	0.00	C
	ATOM	902	CD1	PHE A	66155.882	5.945	-4.118	1.00	0.00	C
25	ATOM	903	CD2	PHE A	66156.081	3.618	-3.638	1.00	0.00	C
	ATOM	904	CE1	PHE A	66155.340	5.647	-5.354	1.00	0.00	C
	ATOM	905	CE2	PHE A	66155.538	3.314	-4.873	1.00	0.00	C
	ATOM	906	CZ	PHE A	66155.167	4.330	-5.732	1.00	0.00	C
	ATOM	907	H	PHE A	66158.348	5.398	0.296	1.00	0.00	H

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	ATOM	908	HA	PHE A	66158.224	3.628	-2.040	1.00	0.00	H
	ATOM	909	1HB	PHE A	66156.171	4.898	-1.148	1.00	0.00	H
	ATOM	910	2HB	PHE A	66156.925	6.337	-1.827	1.00	0.00	H
	ATOM	911	HD1	PHE A	66156.018	6.976	-3.824	1.00	0.00	H
5	ATOM	912	HD2	PHE A	66156.370	2.822	-2.968	1.00	0.00	H
	ATOM	913	HE1	PHE A	66155.051	6.445	-6.023	1.00	0.00	H
	ATOM	914	HE2	PHE A	66155.404	2.283	-5.166	1.00	0.00	H
	ATOM	915	HZ	PHE A	66154.743	4.096	-6.696	1.00	0.00	H
	ATOM	916	N	ARG A	67160.111	4.724	-3.207	1.00	0.00	N
10	ATOM	917	CA	ARG A	67161.164	5.358	-3.991	1.00	0.00	C
	ATOM	918	C	ARG A	67162.128	6.124	-3.090	1.00	0.00	C
	ATOM	919	O	ARG A	67162.576	7.219	-3.430	1.00	0.00	O
	ATOM	920	CB	ARG A	67160.557	6.304	-5.029	1.00	0.00	C
	ATOM	921	CG	ARG A	67159.739	5.593	-6.096	1.00	0.00	C
15	ATOM	922	CD	ARG A	67160.131	6.041	-7.495	1.00	0.00	C
	ATOM	923	NE	ARG A	67161.016	5.080	-8.150	1.00	0.00	N
	ATOM	924	CZ	ARG A	67161.773	5.370	-9.206	1.00	0.00	C
	ATOM	925	NH1	ARG A	67161.755	6.590	-9.731	1.00	0.00	N
	ATOM	926	NH2	ARG A	67162.549	4.437	-9.741	1.00	0.00	N
20	ATOM	927	H	ARG A	67160.011	3.750	-3.241	1.00	0.00	H
	ATOM	928	HA	ARG A	67161.711	4.580	-4.503	1.00	0.00	H
	ATOM	929	1HB	ARG A	67159.912	7.008	-4.523	1.00	0.00	H
	ATOM	930	2HB	ARG A	67161.353	6.846	-5.516	1.00	0.00	H
	ATOM	931	1HG	ARG A	67159.904	4.529	-6.012	1.00	0.00	H
25	ATOM	932	2HG	ARG A	67158.693	5.810	-5.938	1.00	0.00	H
	ATOM	933	1HD	ARG A	67159.236	6.154	-8.088	1.00	0.00	H
	ATOM	934	2HD	ARG A	67160.638	6.994	-7.425	1.00	0.00	H
	ATOM	935	HE	ARG A	67161.048	4.172	-7.783	1.00	0.00	H
	ATOM	936	1HH1	ARG A	67161.172	7.297	-9.333	1.00	0.00	H

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	ATOM	937	2HH1	ARG	A	67162.325	6.801	-10.524	1.00	0.00	H
	ATOM	938	1HH2	ARG	A	67162.566	3.516	-9.351	1.00	0.00	H
	ATOM	939	2HH2	ARG	A	67163.117	4.653	-10.535	1.00	0.00	H
	ATOM	940	N	GLY	A	68162.443	5.540	-1.939	1.00	0.00	N
5	ATOM	941	CA	GLY	A	68163.351	6.182	-1.006	1.00	0.00	C
	ATOM	942	C	GLY	A	68162.706	7.342	-0.275	1.00	0.00	C
	ATOM	943	O	GLY	A	68163.385	8.287	0.127	1.00	0.00	O
	ATOM	944	H	GLY	A	68162.055	4.667	-1.721	1.00	0.00	H
	ATOM	945	1HA	GLY	A	68163.679	5.452	-0.281	1.00	0.00	H
10	ATOM	946	2HA	GLY	A	68164.210	6.546	-1.550	1.00	0.00	H
	ATOM	947	N	THR	A	69161.389	7.272	-0.102	1.00	0.00	N
	ATOM	948	CA	THR	A	69160.651	8.325	0.585	1.00	0.00	C
	ATOM	949	C	THR	A	69159.735	7.739	1.654	1.00	0.00	C
	ATOM	950	O	THR	A	69158.604	7.347	1.369	1.00	0.00	O
15	ATOM	951	CB	THR	A	69159.829	9.137	-0.417	1.00	0.00	C
	ATOM	952	OG1	THR	A	69160.590	9.421	-1.578	1.00	0.00	O
	ATOM	953	CG2	THR	A	69159.336	10.454	0.141	1.00	0.00	C
	ATOM	954	H	THR	A	69160.902	6.493	-0.445	1.00	0.00	H
	ATOM	955	HA	THR	A	69161.368	8.976	1.061	1.00	0.00	H
20	ATOM	956	HB	THR	A	69158.965	8.558	-0.711	1.00	0.00	H
	ATOM	957	HG1	THR	A	69161.292	10.038	-1.358	1.00	0.00	H
	ATOM	958	1HG2	THR	A	69159.985	11.252	-0.190	1.00	0.00	H
	ATOM	959	2HG2	THR	A	69159.340	10.412	1.220	1.00	0.00	H
	ATOM	960	3HG2	THR	A	69158.331	10.639	-0.208	1.00	0.00	H
25	ATOM	961	N	ARG	A	70160.232	7.682	2.886	1.00	0.00	N
	ATOM	962	CA	ARG	A	70159.457	7.143	3.998	1.00	0.00	C
	ATOM	963	C	ARG	A	70158.310	8.077	4.365	1.00	0.00	C
	ATOM	964	O	ARG	A	70158.529	9.234	4.725	1.00	0.00	O
	ATOM	965	CB	ARG	A	70160.359	6.919	5.213	1.00	0.00	C

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	ATOM	966	CG	ARG A	70159.662	6.210	6.364	1.00	0.00	C
	ATOM	967	CD	ARG A	70159.925	6.903	7.691	1.00	0.00	C
	ATOM	968	NE	ARG A	70159.851	5.977	8.819	1.00	0.00	N
	ATOM	969	CZ	ARG A	70160.254	6.275	10.051	1.00	0.00	C
5	ATOM	970	NH1	ARG A	70160.761	7.472	10.320	1.00	0.00	N
	ATOM	971	NH2	ARG A	70160.151	5.374	11.018	1.00	0.00	N
	ATOM	972	H	ARG A	70161.141	8.009	3.050	1.00	0.00	H
	ATOM	973	HA	ARG A	70159.048	6.193	3.686	1.00	0.00	H
	ATOM	974	1HB	ARG A	70161.208	6.324	4.913	1.00	0.00	H
10	ATOM	975	2HB	ARG A	70160.709	7.878	5.567	1.00	0.00	H
	ATOM	976	1HG	ARG A	70158.599	6.203	6.178	1.00	0.00	H
	ATOM	977	2HG	ARG A	70160.026	5.194	6.421	1.00	0.00	H
	ATOM	978	1HD	ARG A	70160.912	7.343	7.663	1.00	0.00	H
	ATOM	979	2HD	ARG A	70159.189	7.682	7.827	1.00	0.00	H
15	ATOM	980	HE	ARG A	70159.482	5.085	8.647	1.00	0.00	H
	ATOM	981	1HH1	ARG A	70160.841	8.157	9.595	1.00	0.00	H
	ATOM	982	2HH1	ARG A	70161.062	7.690	11.248	1.00	0.00	H
	ATOM	983	1HH2	ARG A	70159.771	4.470	10.820	1.00	0.00	H
	ATOM	984	2HH2	ARG A	70160.454	5.598	11.945	1.00	0.00	H
20	ATOM	985	N	TYR A	71157.086	7.567	4.275	1.00	0.00	N
	ATOM	986	CA	TYR A	71155.903	8.356	4.599	1.00	0.00	C
	ATOM	987	C	TYR A	71155.381	8.004	5.988	1.00	0.00	C
	ATOM	988	O	TYR A	71154.877	8.865	6.710	1.00	0.00	O
	ATOM	989	CB	TYR A	71154.808	8.125	3.556	1.00	0.00	C
25	ATOM	990	CG	TYR A	71155.153	8.667	2.187	1.00	0.00	C
	ATOM	991	CD1	TYR A	71155.218	7.826	1.083	1.00	0.00	C
	ATOM	992	CD2	TYR A	71155.413	10.018	1.998	1.00	0.00	C
	ATOM	993	CE1	TYR A	71155.533	8.316	-0.170	1.00	0.00	C
	ATOM	994	CE2	TYR A	71155.727	10.517	0.748	1.00	0.00	C

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	ATOM	995	CZ	TYR A	71155.786	9.662	-0.332	1.00	0.00	C
	ATOM	996	OH	TYR A	71156.099	10.155	-1.578	1.00	0.00	O
	ATOM	997	H	TYR A	71156.976	6.638	3.983	1.00	0.00	H
	ATOM	998	HA	TYR A	71156.187	9.397	4.587	1.00	0.00	H
5	ATOM	999	1HB	TYR A	71154.633	7.064	3.458	1.00	0.00	H
	ATOM	1000	2HB	TYR A	71153.901	8.607	3.886	1.00	0.00	H
	ATOM	1001	HD1	TYR A	71155.019	6.773	1.213	1.00	0.00	H
	ATOM	1002	HD2	TYR A	71155.367	10.685	2.846	1.00	0.00	H
	ATOM	1003	HE1	TYR A	71155.578	7.646	-1.016	1.00	0.00	H
10	ATOM	1004	HE2	TYR A	71155.926	11.571	0.622	1.00	0.00	H
	ATOM	1005	HH	TYR A	71155.373	9.983	-2.182	1.00	0.00	H
	ATOM	1006	N	PHE A	72155.504	6.733	6.357	1.00	0.00	N
	ATOM	1007	CA	PHE A	72155.045	6.266	7.659	1.00	0.00	C
	ATOM	1008	C	PHE A	72156.020	5.251	8.248	1.00	0.00	C
15	ATOM	1009	O	PHE A	72157.052	4.949	7.649	1.00	0.00	O
	ATOM	1010	CB	PHE A	72153.653	5.642	7.538	1.00	0.00	C
	ATOM	1011	CG	PHE A	72153.543	4.631	6.433	1.00	0.00	C
	ATOM	1012	CD1	PHE A	72153.294	5.033	5.130	1.00	0.00	C
	ATOM	1013	CD2	PHE A	72153.689	3.278	6.696	1.00	0.00	C
20	ATOM	1014	CE1	PHE A	72153.193	4.104	4.111	1.00	0.00	C
	ATOM	1015	CE2	PHE A	72153.588	2.345	5.682	1.00	0.00	C
	ATOM	1016	CZ	PHE A	72153.340	2.759	4.388	1.00	0.00	C
	ATOM	1017	H	PHE A	72155.914	6.094	5.737	1.00	0.00	H
	ATOM	1018	HA	PHE A	72154.990	7.120	8.317	1.00	0.00	H
25	ATOM	1019	1HB	PHE A	72153.406	5.147	8.465	1.00	0.00	H
	ATOM	1020	2HB	PHE A	72152.931	6.422	7.349	1.00	0.00	H
	ATOM	1021	HD1	PHE A	72153.179	6.084	4.913	1.00	0.00	H
	ATOM	1022	HD2	PHE A	72153.884	2.954	7.708	1.00	0.00	H
	ATOM	1023	HE1	PHE A	72152.997	4.431	3.101	1.00	0.00	H



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	ATOM	1024	HE2	PHE	A	72153.705	1.294	5.901	1.00	0.00	H
	ATOM	1025	HZ	PHE	A	72153.262	2.032	3.593	1.00	0.00	H
	ATOM	1026	N	THR	A	73155.687	4.731	9.424	1.00	0.00	N
	ATOM	1027	CA	THR	A	73156.534	3.750	10.094	1.00	0.00	C
5	ATOM	1028	C	THR	A	73155.833	2.399	10.188	1.00	0.00	C
	ATOM	1029	O	THR	A	73154.813	2.263	10.862	1.00	0.00	O
	ATOM	1030	CB	THR	A	73156.909	4.241	11.493	1.00	0.00	C
	ATOM	1031	OG1	THR	A	73157.700	3.278	12.167	1.00	0.00	O
	ATOM	1032	CG2	THR	A	73155.709	4.539	12.365	1.00	0.00	C
10	ATOM	1033	H	THR	A	73154.851	5.012	9.852	1.00	0.00	H
	ATOM	1034	HA	THR	A	73157.434	3.636	9.510	1.00	0.00	H
	ATOM	1035	HB	THR	A	73157.486	5.150	11.401	1.00	0.00	H
	ATOM	1036	HG1	THR	A	73158.049	3.660	12.976	1.00	0.00	H
	ATOM	1037	1HG2	THR	A	73155.202	3.617	12.608	1.00	0.00	H
15	ATOM	1038	2HG2	THR	A	73155.032	5.192	11.834	1.00	0.00	H
	ATOM	1039	3HG2	THR	A	73156.035	5.021	13.274	1.00	0.00	H
	ATOM	1040	N	CYS	A	74156.388	1.402	9.505	1.00	0.00	N
	ATOM	1041	CA	CYS	A	74155.816	0.060	9.512	1.00	0.00	C
	ATOM	1042	C	CYS	A	74156.913	-0.999	9.554	1.00	0.00	C
20	ATOM	1043	O	CYS	A	74158.096	-0.687	9.422	1.00	0.00	O
	ATOM	1044	CB	CYS	A	74154.939	-0.148	8.276	1.00	0.00	C
	ATOM	1045	SG	CYS	A	74153.237	0.427	8.475	1.00	0.00	S
	ATOM	1046	H	CYS	A	74157.201	1.572	8.985	1.00	0.00	H
	ATOM	1047	HA	CYS	A	74155.205	-0.035	10.396	1.00	0.00	H
25	ATOM	1048	1HB	CYS	A	74155.370	0.387	7.443	1.00	0.00	H
	ATOM	1049	2HB	CYS	A	74154.905	-1.202	8.042	1.00	0.00	H
	ATOM	1050	HG	CYS	A	74152.753	0.204	7.676	1.00	0.00	H
	ATOM	1051	N	ALA	A	75156.512	-2.252	9.739	1.00	0.00	N
	ATOM	1052	CA	ALA	A	75157.461	-3.357	9.799	1.00	0.00	C

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	ATOM	1053	C	ALA A	75158.197	-3.521	8.474	1.00	0.00	C
	ATOM	1054	O	ALA A	75157.960	-2.774	7.524	1.00	0.00	O
	ATOM	1055	CB	ALA A	75156.745	-4.647	10.170	1.00	0.00	C
	ATOM	1056	H	ALA A	75155.554	-2.438	9.837	1.00	0.00	H
5	ATOM	1057	HA	ALA A	75158.180	-3.137	10.574	1.00	0.00	H
	ATOM	1058	1HB	ALA A	75156.801	-4.796	11.238	1.00	0.00	H
	ATOM	1059	2HB	ALA A	75157.215	-5.478	9.665	1.00	0.00	H
	ATOM	1060	3HB	ALA A	75155.709	-4.583	9.869	1.00	0.00	H
	ATOM	1061	N	LEU A	76159.091	-4.502	8.416	1.00	0.00	N
10	ATOM	1062	CA	LEU A	76159.862	-4.764	7.206	1.00	0.00	C
	ATOM	1063	C	LEU A	76159.161	-5.793	6.326	1.00	0.00	C
	ATOM	1064	O	LEU A	76158.560	-6.745	6.825	1.00	0.00	O
	ATOM	1065	CB	LEU A	76161.265	-5.256	7.566	1.00	0.00	C
	ATOM	1066	CG	LEU A	76162.272	-4.153	7.899	1.00	0.00	C
15	ATOM	1067	CD1	LEU A	76163.265	-4.636	8.945	1.00	0.00	C
	ATOM	1068	CD2	LEU A	76162.999	-3.700	6.642	1.00	0.00	C
	ATOM	1069	H	LEU A	76159.236	-5.064	9.206	1.00	0.00	H
	ATOM	1070	HA	LEU A	76159.945	-3.836	6.659	1.00	0.00	H
	ATOM	1071	1HB	LEU A	76161.185	-5.912	8.421	1.00	0.00	H
20	ATOM	1072	2HB	LEU A	76161.650	-5.823	6.733	1.00	0.00	H
	ATOM	1073	HG	LEU A	76161.745	-3.304	8.307	1.00	0.00	H
	ATOM	1074	1HD1	LEU A	76164.124	-5.069	8.454	1.00	0.00	H
	ATOM	1075	2HD1	LEU A	76162.795	-5.380	9.572	1.00	0.00	H
	ATOM	1076	3HD1	LEU A	76163.582	-3.801	9.554	1.00	0.00	H
25	ATOM	1077	1HD2	LEU A	76162.395	-3.926	5.775	1.00	0.00	H
	ATOM	1078	2HD2	LEU A	76163.945	-4.216	6.567	1.00	0.00	H
	ATOM	1079	3HD2	LEU A	76163.173	-2.636	6.690	1.00	0.00	H
	ATOM	1080	N	LYS A	77159.241	-5.595	5.014	1.00	0.00	N
	ATOM	1081	CA	LYS A	77158.615	-6.506	4.063	1.00	0.00	C

	ATOM	1082	C	LYS A	77157.102	-6.545	4.261	1.00	0.00	C
	ATOM	1083	O	LYS A	77156.473	-7.591	4.107	1.00	0.00	O
	ATOM	1084	CB	LYS A	77159.196	-7.914	4.213	1.00	0.00	C
	ATOM	1085	CG	LYS A	77160.695	-7.980	3.971	1.00	0.00	C
5	ATOM	1086	CD	LYS A	77161.038	-7.712	2.515	1.00	0.00	C
	ATOM	1087	CE	LYS A	77162.514	-7.398	2.339	1.00	0.00	C
	ATOM	1088	NZ	LYS A	77163.360	-8.619	2.449	1.00	0.00	N
	ATOM	1089	H	LYS A	77159.734	-4.817	4.677	1.00	0.00	H
	ATOM	1090	HA	LYS A	77158.826	-6.143	3.069	1.00	0.00	H
10	ATOM	1091	1HB	LYS A	77158.998	-8.268	5.213	1.00	0.00	H
	ATOM	1092	2HB	LYS A	77158.709	-8.569	3.505	1.00	0.00	H
	ATOM	1093	1HG	LYS A	77161.183	-7.239	4.587	1.00	0.00	H
	ATOM	1094	2HG	LYS A	77161.050	-8.965	4.240	1.00	0.00	H
	ATOM	1095	1HD	LYS A	77160.794	-8.586	1.931	1.00	0.00	H
15	ATOM	1096	2HD	LYS A	77160.456	-6.871	2.167	1.00	0.00	H
	ATOM	1097	1HE	LYS A	77162.662	-6.956	1.364	1.00	0.00	H
	ATOM	1098	2HE	LYS A	77162.813	-6.693	3.101	1.00	0.00	H
	ATOM	1099	1HZ	LYS A	77162.813	-9.459	2.167	1.00	0.00	H
	ATOM	1100	2HZ	LYS A	77163.682	-8.743	3.430	1.00	0.00	H
20	ATOM	1101	3HZ	LYS A	77164.191	-8.536	1.831	1.00	0.00	H
	ATOM	1102	N	LYS A	78156.526	-5.398	4.602	1.00	0.00	N
	ATOM	1103	CA	LYS A	78155.087	-5.300	4.821	1.00	0.00	C
	ATOM	1104	C	LYS A	78154.565	-3.928	4.407	1.00	0.00	C
	ATOM	1105	O	LYS A	78153.672	-3.373	5.047	1.00	0.00	O
25	ATOM	1106	CB	LYS A	78154.754	-5.564	6.291	1.00	0.00	C
	ATOM	1107	CG	LYS A	78155.276	-6.897	6.803	1.00	0.00	C
	ATOM	1108	CD	LYS A	78155.037	-7.051	8.296	1.00	0.00	C
	ATOM	1109	CE	LYS A	78153.738	-7.786	8.580	1.00	0.00	C
	ATOM	1110	NZ	LYS A	78153.489	-7.930	10.040	1.00	0.00	N

	ATOM	1111	H	LYS A	78157.081	-4.597	4.709	1.00	0.00	H
	ATOM	1112	HA	LYS A	78154.609	-6.053	4.212	1.00	0.00	H
	ATOM	1113	1HB	LYS A	78155.187	-4.778	6.892	1.00	0.00	H
	ATOM	1114	2HB	LYS A	78153.682	-5.551	6.413	1.00	0.00	H
5	ATOM	1115	1HG	LYS A	78154.768	-7.695	6.283	1.00	0.00	H
	ATOM	1116	2HG	LYS A	78156.337	-6.956	6.609	1.00	0.00	H
	ATOM	1117	1HD	LYS A	78155.857	-7.608	8.726	1.00	0.00	H
	ATOM	1118	2HD	LYS A	78154.992	-6.070	8.746	1.00	0.00	H
	ATOM	1119	1HE	LYS A	78152.923	-7.233	8.138	1.00	0.00	H
10	ATOM	1120	2HE	LYS A	78153.790	-8.768	8.132	1.00	0.00	H
	ATOM	1121	1HZ	LYS A	78152.472	-7.847	10.240	1.00	0.00	H
	ATOM	1122	2HZ	LYS A	78153.995	-7.189	10.566	1.00	0.00	H
	ATOM	1123	3HZ	LYS A	78153.820	-8.860	10.369	1.00	0.00	H
	ATOM	1124	N	ALA A	79155.130	-3.385	3.333	1.00	0.00	N
15	ATOM	1125	CA	ALA A	79154.722	-2.078	2.834	1.00	0.00	C
	ATOM	1126	C	ALA A	79154.661	-2.066	1.311	1.00	0.00	C
	ATOM	1127	O	ALA A	79155.692	-2.045	0.638	1.00	0.00	O
	ATOM	1128	CB	ALA A	79155.673	-1.002	3.334	1.00	0.00	C
	ATOM	1129	H	ALA A	79155.838	-3.876	2.865	1.00	0.00	H
20	ATOM	1130	HA	ALA A	79153.737	-1.864	3.225	1.00	0.00	H
	ATOM	1131	1HB	ALA A	79156.179	-1.352	4.222	1.00	0.00	H
	ATOM	1132	2HB	ALA A	79155.115	-0.107	3.567	1.00	0.00	H
	ATOM	1133	3HB	ALA A	79156.402	-0.782	2.568	1.00	0.00	H
	ATOM	1134	N	LEU A	80153.445	-2.077	0.772	1.00	0.00	N
25	ATOM	1135	CA	LEU A	80153.250	-2.068	-0.674	1.00	0.00	C
	ATOM	1136	C	LEU A	80152.372	-0.893	-1.095	1.00	0.00	C
	ATOM	1137	O	LEU A	80151.191	-0.835	-0.752	1.00	0.00	O
	ATOM	1138	CB	LEU A	80152.617	-3.383	-1.131	1.00	0.00	C
	ATOM	1139	CG	LEU A	80152.301	-3.464	-2.626	1.00	0.00	C

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	ATOM	1140	CD1	LEU	A	80153.582	-3.431	-3.445	1.00	0.00	C
	ATOM	1141	CD2	LEU	A	80151.501	-4.721	-2.933	1.00	0.00	C
	ATOM	1142	H	LEU	A	80152.662	-2.093	1.360	1.00	0.00	H
	ATOM	1143	HA	LEU	A	80154.218	-1.962	-1.139	1.00	0.00	H
5	ATOM	1144	1HB	LEU	A	80153.294	-4.189	-0.883	1.00	0.00	H
	ATOM	1145	2HB	LEU	A	80151.698	-3.526	-0.585	1.00	0.00	H
	ATOM	1146	HG	LEU	A	80151.704	-2.608	-2.907	1.00	0.00	H
	ATOM	1147	1HD1	LEU	A	80153.460	-4.038	-4.330	1.00	0.00	H
	ATOM	1148	2HD1	LEU	A	80154.399	-3.819	-2.852	1.00	0.00	H
10	ATOM	1149	3HD1	LEU	A	80153.799	-2.413	-3.734	1.00	0.00	H
	ATOM	1150	1HD2	LEU	A	80151.751	-5.074	-3.924	1.00	0.00	H
	ATOM	1151	2HD2	LEU	A	80150.446	-4.496	-2.887	1.00	0.00	H
	ATOM	1152	3HD2	LEU	A	80151.739	-5.485	-2.209	1.00	0.00	H
	ATOM	1153	N	PHE	A	81152.956	0.039	-1.839	1.00	0.00	N
15	ATOM	1154	CA	PHE	A	81152.227	1.212	-2.307	1.00	0.00	C
	ATOM	1155	C	PHE	A	81151.468	0.904	-3.594	1.00	0.00	C
	ATOM	1156	O	PHE	A	81151.964	0.183	-4.460	1.00	0.00	O
	ATOM	1157	CB	PHE	A	81153.188	2.379	-2.536	1.00	0.00	C
	ATOM	1158	CG	PHE	A	81153.792	2.916	-1.270	1.00	0.00	C
20	ATOM	1159	CD1	PHE	A	81154.989	2.410	-0.788	1.00	0.00	C
	ATOM	1160	CD2	PHE	A	81153.164	3.928	-0.561	1.00	0.00	C
	ATOM	1161	CE1	PHE	A	81155.547	2.902	0.377	1.00	0.00	C
	ATOM	1162	CE2	PHE	A	81153.717	4.425	0.603	1.00	0.00	C
	ATOM	1163	CZ	PHE	A	81154.910	3.911	1.073	1.00	0.00	C
25	ATOM	1164	H	PHE	A	81153.900	-0.064	-2.079	1.00	0.00	H
	ATOM	1165	HA	PHE	A	81151.516	1.487	-1.543	1.00	0.00	H
	ATOM	1166	1HB	PHE	A	81153.995	2.052	-3.175	1.00	0.00	H
	ATOM	1167	2HB	PHE	A	81152.657	3.185	-3.020	1.00	0.00	H
	ATOM	1168	HD1	PHE	A	81155.488	1.622	-1.332	1.00	0.00	H

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	ATOM	1169	HD2	PHE	A	81152.231	4.330	-0.928	1.00	0.00	H
	ATOM	1170	HE1	PHE	A	81156.480	2.499	0.742	1.00	0.00	H
	ATOM	1171	HE2	PHE	A	81153.216	5.213	1.146	1.00	0.00	H
	ATOM	1172	HZ	PHE	A	81155.344	4.297	1.983	1.00	0.00	H
5	ATOM	1173	N	VAL	A	82150.265	1.454	-3.713	1.00	0.00	N
	ATOM	1174	CA	VAL	A	82149.439	1.238	-4.894	1.00	0.00	C
	ATOM	1175	C	VAL	A	82148.475	2.400	-5.112	1.00	0.00	C
	ATOM	1176	O	VAL	A	82148.288	3.238	-4.230	1.00	0.00	O
	ATOM	1177	CB	VAL	A	82148.632	-0.069	-4.784	1.00	0.00	C
10	ATOM	1178	CG1	VAL	A	82149.555	-1.276	-4.862	1.00	0.00	C
	ATOM	1179	CG2	VAL	A	82147.821	-0.090	-3.498	1.00	0.00	C
	ATOM	1180	H	VAL	A	82149.925	2.020	-2.988	1.00	0.00	H
	ATOM	1181	HA	VAL	A	82150.095	1.161	-5.750	1.00	0.00	H
	ATOM	1182	HB	VAL	A	82147.946	-0.116	-5.618	1.00	0.00	H
15	ATOM	1183	1HG1	VAL	A	82150.262	-1.240	-4.048	1.00	0.00	H
	ATOM	1184	2HG1	VAL	A	82150.086	-1.262	-5.802	1.00	0.00	H
	ATOM	1185	3HG1	VAL	A	82148.970	-2.181	-4.792	1.00	0.00	H
	ATOM	1186	1HG2	VAL	A	82147.469	0.907	-3.279	1.00	0.00	H
	ATOM	1187	2HG2	VAL	A	82148.442	-0.439	-2.686	1.00	0.00	H
20	ATOM	1188	3HG2	VAL	A	82146.976	-0.752	-3.616	1.00	0.00	H
	ATOM	1189	N	LYS	A	83147.867	2.443	-6.292	1.00	0.00	N
	ATOM	1190	CA	LYS	A	83146.922	3.502	-6.627	1.00	0.00	C
	ATOM	1191	C	LYS	A	83145.691	3.437	-5.732	1.00	0.00	C
	ATOM	1192	O	LYS	A	83145.092	2.376	-5.556	1.00	0.00	O
25	ATOM	1193	CB	LYS	A	83146.505	3.398	-8.096	1.00	0.00	C
	ATOM	1194	CG	LYS	A	83147.637	3.674	-9.071	1.00	0.00	C
	ATOM	1195	CD	LYS	A	83147.323	3.133	-10.456	1.00	0.00	C
	ATOM	1196	CE	LYS	A	83148.071	3.897	-11.536	1.00	0.00	C
	ATOM	1197	NZ	LYS	A	83149.309	3.187	-11.962	1.00	0.00	N

	ATOM	1198	H	LYS A	83148.058	1.747	-6.955	1.00	0.00	H
	ATOM	1199	HA	LYS A	83147.415	4.449	-6.470	1.00	0.00	H
	ATOM	1200	1HB	LYS A	83146.134	2.401	-8.281	1.00	0.00	H
	ATOM	1201	2HB	LYS A	83145.714	4.108	-8.285	1.00	0.00	H
5	ATOM	1202	1HG	LYS A	83147.789	4.740	-9.138	1.00	0.00	H
	ATOM	1203	2HG	LYS A	83148.538	3.203	-8.705	1.00	0.00	H
	ATOM	1204	1HD	LYS A	83147.611	2.093	-10.500	1.00	0.00	H
	ATOM	1205	2HD	LYS A	83146.261	3.221	-10.634	1.00	0.00	H
	ATOM	1206	1HE	LYS A	83147.422	4.015	-12.391	1.00	0.00	H
10	ATOM	1207	2HE	LYS A	83148.339	4.871	-11.150	1.00	0.00	H
	ATOM	1208	1HZ	LYS A	83149.120	2.620	-12.814	1.00	0.00	H
	ATOM	1209	2HZ	LYS A	83149.638	2.556	-11.205	1.00	0.00	H
	ATOM	1210	3HZ	LYS A	83150.060	3.875	-12.176	1.00	0.00	H
	ATOM	1211	N	LEU A	84145.318	4.580	-5.169	1.00	0.00	N
15	ATOM	1212	CA	LEU A	84144.158	4.661	-4.291	1.00	0.00	C
	ATOM	1213	C	LEU A	84142.865	4.491	-5.082	1.00	0.00	C
	ATOM	1214	O	LEU A	84141.879	3.961	-4.572	1.00	0.00	O
	ATOM	1215	CB	LEU A	84144.151	6.002	-3.554	1.00	0.00	C
	ATOM	1216	CG	LEU A	84142.910	6.266	-2.698	1.00	0.00	C
20	ATOM	1217	CD1	LEU A	84142.912	5.375	-1.467	1.00	0.00	C
	ATOM	1218	CD2	LEU A	84142.843	7.733	-2.298	1.00	0.00	C
	ATOM	1219	H	LEU A	84145.837	5.392	-5.350	1.00	0.00	H
	ATOM	1220	HA	LEU A	84144.233	3.863	-3.568	1.00	0.00	H
	ATOM	1221	1HB	LEU A	84145.020	6.041	-2.914	1.00	0.00	H
25	ATOM	1222	2HB	LEU A	84144.229	6.791	-4.287	1.00	0.00	H
	ATOM	1223	HG	LEU A	84142.027	6.036	-3.275	1.00	0.00	H
	ATOM	1224	1HD1	LEU A	84143.333	4.414	-1.719	1.00	0.00	H
	ATOM	1225	2HD1	LEU A	84141.899	5.244	-1.115	1.00	0.00	H
	ATOM	1226	3HD1	LEU A	84143.505	5.835	-0.689	1.00	0.00	H

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	ATOM	1227	1HD2	LEU A	84142.606	8.332	-3.164	1.00	0.00	H
	ATOM	1228	2HD2	LEU A	84143.798	8.040	-1.898	1.00	0.00	H
	ATOM	1229	3HD2	LEU A	84142.078	7.866	-1.547	1.00	0.00	H
	ATOM	1230	N	LYS A	85142.879	4.942	-6.332	1.00	0.00	N
5	ATOM	1231	CA	LYS A	85141.709	4.839	-7.195	1.00	0.00	C
	ATOM	1232	C	LYS A	85141.357	3.378	-7.464	1.00	0.00	C
	ATOM	1233	O	LYS A	85140.198	3.045	-7.713	1.00	0.00	O
	ATOM	1234	CB	LYS A	85141.956	5.567	-8.517	1.00	0.00	C
	ATOM	1235	CG	LYS A	85143.160	5.042	-9.284	1.00	0.00	C
10	ATOM	1236	CD	LYS A	85144.320	6.026	-9.247	1.00	0.00	C
	ATOM	1237	CE	LYS A	85144.051	7.236	-10.128	1.00	0.00	C
	ATOM	1238	NZ	LYS A	85144.712	7.112	-11.457	1.00	0.00	N
	ATOM	1239	H	LYS A	85143.696	5.354	-6.683	1.00	0.00	H
	ATOM	1240	HA	LYS A	85140.880	5.308	-6.686	1.00	0.00	H
15	ATOM	1241	1HB	LYS A	85141.083	5.459	-9.143	1.00	0.00	H
	ATOM	1242	2HB	LYS A	85142.114	6.616	-8.313	1.00	0.00	H
	ATOM	1243	1HG	LYS A	85143.479	4.111	-8.842	1.00	0.00	H
	ATOM	1244	2HG	LYS A	85142.875	4.876	-10.312	1.00	0.00	H
	ATOM	1245	1HD	LYS A	85144.464	6.360	-8.231	1.00	0.00	H
20	ATOM	1246	2HD	LYS A	85145.212	5.528	-9.596	1.00	0.00	H
	ATOM	1247	1HE	LYS A	85142.985	7.331	-10.273	1.00	0.00	H
	ATOM	1248	2HE	LYS A	85144.426	8.119	-9.630	1.00	0.00	H
	ATOM	1249	1HZ	LYS A	85145.717	6.869	-11.335	1.00	0.00	H
	ATOM	1250	2HZ	LYS A	85144.645	8.011	-11.975	1.00	0.00	H
25	ATOM	1251	3HZ	LYS A	85144.251	6.367	-12.017	1.00	0.00	H
	ATOM	1252	N	SER A	86142.363	2.511	-7.412	1.00	0.00	N
	ATOM	1253	CA	SER A	86142.158	1.087	-7.651	1.00	0.00	C
	ATOM	1254	C	SER A	86142.188	0.306	-6.341	1.00	0.00	C
	ATOM	1255	O	SER A	86142.608	-0.850	-6.306	1.00	0.00	O



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	ATOM	1256	CB	SER A	86143.227	0.549	-8.603	1.00	0.00	C
	ATOM	1257	OG	SER A	86143.165	1.200	-9.861	1.00	0.00	O
	ATOM	1258	H	SER A	86143.265	2.837	-7.209	1.00	0.00	H
	ATOM	1259	HA	SER A	86141.187	0.965	-8.107	1.00	0.00	H
5	ATOM	1260	1HB	SER A	86144.204	0.714	-8.176	1.00	0.00	H
	ATOM	1261	2HB	SER A	86143.073	-0.510	-8.752	1.00	0.00	H
	ATOM	1262	HG	SER A	86142.249	1.269	-10.141	1.00	0.00	H
	ATOM	1263	N	CYS A	87141.740	0.946	-5.266	1.00	0.00	N
	ATOM	1264	CA	CYS A	87141.714	0.312	-3.953	1.00	0.00	C
10	ATOM	1265	C	CYS A	87140.288	-0.056	-3.555	1.00	0.00	C
	ATOM	1266	O	CYS A	87139.363	0.738	-3.721	1.00	0.00	O
	ATOM	1267	CB	CYS A	87142.326	1.241	-2.903	1.00	0.00	C
	ATOM	1268	SG	CYS A	87144.133	1.202	-2.848	1.00	0.00	S
	ATOM	1269	H	CYS A	87141.417	1.868	-5.358	1.00	0.00	H
15	ATOM	1270	HA	CYS A	87142.303	-0.591	-4.011	1.00	0.00	H
	ATOM	1271	1HB	CYS A	87142.027	2.256	-3.113	1.00	0.00	H
	ATOM	1272	2HB	CYS A	87141.961	0.958	-1.927	1.00	0.00	H
	ATOM	1273	HG	CYS A	87144.438	0.603	-3.533	1.00	0.00	H
	ATOM	1274	N	ARG A	88140.119	-1.265	-3.030	1.00	0.00	N
20	ATOM	1275	CA	ARG A	88138.806	-1.737	-2.610	1.00	0.00	C
	ATOM	1276	C	ARG A	88138.683	-1.722	-1.085	1.00	0.00	C
	ATOM	1277	O	ARG A	88139.522	-2.287	-0.385	1.00	0.00	O
	ATOM	1278	CB	ARG A	88138.558	-3.152	-3.140	1.00	0.00	C
	ATOM	1279	CG	ARG A	88137.514	-3.212	-4.244	1.00	0.00	C
25	ATOM	1280	CD	ARG A	88136.107	-3.286	-3.675	1.00	0.00	C
	ATOM	1281	NE	ARG A	88135.160	-3.860	-4.628	1.00	0.00	N
	ATOM	1282	CZ	ARG A	88133.845	-3.915	-4.425	1.00	0.00	C
	ATOM	1283	NH1	ARG A	88133.319	-3.434	-3.305	1.00	0.00	N
	ATOM	1284	NH2	ARG A	88133.055	-4.454	-5.343	1.00	0.00	N

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	ATOM	1285	H	ARG A	88140.895	-1.853	-2.924	1.00	0.00	H
	ATOM	1286	HA	ARG A	88138.067	-1.072	-3.029	1.00	0.00	H
	ATOM	1287	1HB	ARG A	88139.485	-3.544	-3.530	1.00	0.00	H
	ATOM	1288	2HB	ARG A	88138.226	-3.779	-2.326	1.00	0.00	H
5	ATOM	1289	1HG	ARG A	88137.598	-2.327	-4.856	1.00	0.00	H
	ATOM	1290	2HG	ARG A	88137.695	-4.089	-4.849	1.00	0.00	H
	ATOM	1291	1HD	ARG A	88136.123	-3.898	-2.786	1.00	0.00	H
	ATOM	1292	2HD	ARG A	88135.784	-2.288	-3.417	1.00	0.00	H
	ATOM	1293	HE	ARG A	88135.522	-4.222	-5.463	1.00	0.00	H
10	ATOM	1294	1HH1	ARG A	88133.909	-3.027	-2.609	1.00	0.00	H
	ATOM	1295	2HH1	ARG A	88132.330	-3.480	-3.158	1.00	0.00	H
	ATOM	1296	1HH2	ARG A	88133.446	-4.818	-6.189	1.00	0.00	H
	ATOM	1297	2HH2	ARG A	88132.067	-4.496	-5.191	1.00	0.00	H
	ATOM	1298	N	PRO A	89137.633	-1.072	-0.548	1.00	0.00	N
15	ATOM	1299	CA	PRO A	89137.417	-0.994	0.901	1.00	0.00	C
	ATOM	1300	C	PRO A	89137.404	-2.369	1.559	1.00	0.00	C
	ATOM	1301	O	PRO A	89136.670	-3.264	1.136	1.00	0.00	O
	ATOM	1302	CB	PRO A	89136.041	-0.332	1.024	1.00	0.00	C
	ATOM	1303	CG	PRO A	89135.870	0.429	-0.245	1.00	0.00	C
20	ATOM	1304	CD	PRO A	89136.580	-0.368	-1.303	1.00	0.00	C
	ATOM	1305	HA	PRO A	89138.161	-0.375	1.379	1.00	0.00	H
	ATOM	1306	1HB	PRO A	89135.282	-1.091	1.136	1.00	0.00	H
	ATOM	1307	2HB	PRO A	89136.031	0.326	1.881	1.00	0.00	H
	ATOM	1308	1HG	PRO A	89134.819	0.515	-0.482	1.00	0.00	H
25	ATOM	1309	2HG	PRO A	89136.316	1.408	-0.150	1.00	0.00	H
	ATOM	1310	1HD	PRO A	89135.902	-1.070	-1.765	1.00	0.00	H
	ATOM	1311	2HD	PRO A	89137.011	0.289	-2.044	1.00	0.00	H
	ATOM	1312	N	ASP A	90138.220	-2.533	2.594	1.00	0.00	N
	ATOM	1313	CA	ASP A	90138.302	-3.801	3.309	1.00	0.00	C

	ATOM	1314	C	ASP	A	90137.533	-3.735	4.624	1.00	0.00	C
	ATOM	1315	O	ASP	A	90138.011	-3.166	5.606	1.00	0.00	O
	ATOM	1316	CB	ASP	A	90139.763	-4.165	3.578	1.00	0.00	C
	ATOM	1317	CG	ASP	A	90139.987	-5.664	3.624	1.00	0.00	C
5	ATOM	1318	OD1	ASP	A	90140.017	-6.226	4.739	1.00	0.00	O
	ATOM	1319	OD2	ASP	A	90140.130	-6.275	2.544	1.00	0.00	O
	ATOM	1320	H	ASP	A	90138.781	-1.783	2.885	1.00	0.00	H
	ATOM	1321	HA	ASP	A	90137.860	-4.562	2.685	1.00	0.00	H
	ATOM	1322	1HB	ASP	A	90140.381	-3.751	2.796	1.00	0.00	H
10	ATOM	1323	2HB	ASP	A	90140.063	-3.746	4.527	1.00	0.00	H
	ATOM	1324	N	SER	A	91136.339	-4.319	4.637	1.00	0.00	N
	ATOM	1325	CA	SER	A	91135.506	-4.326	5.834	1.00	0.00	C
	ATOM	1326	C	SER	A	91135.639	-5.649	6.582	1.00	0.00	C
	ATOM	1327	O	SER	A	91134.700	-6.099	7.237	1.00	0.00	O
15	ATOM	1328	CB	SER	A	91134.042	-4.084	5.463	1.00	0.00	C
	ATOM	1329	OG	SER	A	91133.352	-3.424	6.510	1.00	0.00	O
	ATOM	1330	H	SER	A	91136.012	-4.757	3.824	1.00	0.00	H
	ATOM	1331	HA	SER	A	91135.842	-3.527	6.476	1.00	0.00	H
	ATOM	1332	1HB	SER	A	91133.994	-3.472	4.575	1.00	0.00	H
20	ATOM	1333	2HB	SER	A	91133.560	-5.032	5.272	1.00	0.00	H
	ATOM	1334	HG	SER	A	91133.254	-4.021	7.255	1.00	0.00	H
	ATOM	1335	N	ARG	A	92136.812	-6.266	6.479	1.00	0.00	N
	ATOM	1336	CA	ARG	A	92137.067	-7.537	7.147	1.00	0.00	C
	ATOM	1337	C	ARG	A	92137.066	-7.367	8.663	1.00	0.00	C
25	ATOM	1338	O	ARG	A	92136.736	-8.295	9.401	1.00	0.00	O
	ATOM	1339	CB	ARG	A	92138.406	-8.118	6.689	1.00	0.00	C
	ATOM	1340	CG	ARG	A	92138.307	-8.944	5.417	1.00	0.00	C
	ATOM	1341	CD	ARG	A	92137.309	-10.081	5.568	1.00	0.00	C
	ATOM	1342	NE	ARG	A	92136.010	-9.750	4.987	1.00	0.00	N

	ATOM	1343	CZ	ARG	A	92134.911	-10.481	5.164	1.00	0.00	C
	ATOM	1344	NH1	ARG	A	92134.949	-11.582	5.903	1.00	0.00	N
	ATOM	1345	NH2	ARG	A	92133.771	-10.109	4.598	1.00	0.00	N
	ATOM	1346	H	ARG	A	92137.522	-5.857	5.942	1.00	0.00	H
5	ATOM	1347	HA	ARG	A	92136.276	-8.219	6.873	1.00	0.00	H
	ATOM	1348	1HB	ARG	A	92139.095	-7.305	6.511	1.00	0.00	H
	ATOM	1349	2HB	ARG	A	92138.800	-8.748	7.472	1.00	0.00	H
	ATOM	1350	1HG	ARG	A	92137.988	-8.305	4.607	1.00	0.00	H
	ATOM	1351	2HG	ARG	A	92139.279	-9.357	5.191	1.00	0.00	H
10	ATOM	1352	1HD	ARG	A	92137.701	-10.956	5.072	1.00	0.00	H
	ATOM	1353	2HD	ARG	A	92137.180	-10.293	6.619	1.00	0.00	H
	ATOM	1354	HE	ARG	A	92135.953	-8.941	4.437	1.00	0.00	H
	ATOM	1355	1HH1	ARG	A	92135.807	-11.868	6.332	1.00	0.00	H
	ATOM	1356	2HH1	ARG	A	92134.121	-12.127	6.032	1.00	0.00	H
15	ATOM	1357	1HH2	ARG	A	92133.736	-9.280	4.040	1.00	0.00	H
	ATOM	1358	2HH2	ARG	A	92132.945	-10.658	4.730	1.00	0.00	H
	ATOM	1359	N	PHE	A	93137.439	-6.176	9.122	1.00	0.00	N
	ATOM	1360	CA	PHE	A	93137.481	-5.887	10.550	1.00	0.00	C
	ATOM	1361	C	PHE	A	93136.780	-4.569	10.863	1.00	0.00	C
20	ATOM	1362	O	PHE	A	93137.137	-3.875	11.815	1.00	0.00	O
	ATOM	1363	CB	PHE	A	93138.930	-5.835	11.037	1.00	0.00	C
	ATOM	1364	CG	PHE	A	93139.691	-7.106	10.797	1.00	0.00	C
	ATOM	1365	CD1	PHE	A	93140.083	-7.907	11.858	1.00	0.00	C
	ATOM	1366	CD2	PHE	A	93140.013	-7.503	9.508	1.00	0.00	C
25	ATOM	1367	CE1	PHE	A	93140.783	-9.078	11.639	1.00	0.00	C
	ATOM	1368	CE2	PHE	A	93140.713	-8.673	9.283	1.00	0.00	C
	ATOM	1369	CZ	PHE	A	93141.098	-9.462	10.350	1.00	0.00	C
	ATOM	1370	H	PHE	A	93137.693	-5.476	8.484	1.00	0.00	H
	ATOM	1371	HA	PHE	A	93136.968	-6.685	11.065	1.00	0.00	H

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	ATOM	1372	1HB	PHE	A	93139.446	-5.036	10.524	1.00	0.00	H
	ATOM	1373	2HB	PHE	A	93138.938	-5.637	12.100	1.00	0.00	H
	ATOM	1374	HD1	PHE	A	93139.836	-7.607	12.866	1.00	0.00	H
	ATOM	1375	HD2	PHE	A	93139.713	-6.887	8.674	1.00	0.00	H
5	ATOM	1376	HE1	PHE	A	93141.083	-9.693	12.475	1.00	0.00	H
	ATOM	1377	HE2	PHE	A	93140.959	-8.971	8.275	1.00	0.00	H
	ATOM	1378	HZ	PHE	A	93141.645	-10.376	10.176	1.00	0.00	H
	ATOM	1379	N	ALA	A	94135.778	-4.230	10.057	1.00	0.00	N
	ATOM	1380	CA	ALA	A	94135.027	-2.996	10.252	1.00	0.00	C
10	ATOM	1381	C	ALA	A	94133.691	-3.270	10.933	1.00	0.00	C
	ATOM	1382	O	ALA	A	94132.872	-4.038	10.431	1.00	0.00	O
	ATOM	1383	CB	ALA	A	94134.809	-2.296	8.918	1.00	0.00	C
	ATOM	1384	H	ALA	A	94135.538	-4.825	9.315	1.00	0.00	H
	ATOM	1385	HA	ALA	A	94135.614	-2.345	10.882	1.00	0.00	H
15	ATOM	1386	1HB	ALA	A	94134.850	-3.021	8.120	1.00	0.00	H
	ATOM	1387	2HB	ALA	A	94135.580	-1.554	8.772	1.00	0.00	H
	ATOM	1388	3HB	ALA	A	94133.842	-1.815	8.918	1.00	0.00	H
	ATOM	1389	N	SER	A	95133.478	-2.635	12.081	1.00	0.00	N
	ATOM	1390	CA	SER	A	95132.240	-2.810	12.832	1.00	0.00	C
20	ATOM	1391	C	SER	A	95131.059	-2.200	12.085	1.00	0.00	C
	ATOM	1392	O	SER	A	95131.135	-1.074	11.594	1.00	0.00	O
	ATOM	1393	CB	SER	A	95132.365	-2.173	14.217	1.00	0.00	C
	ATOM	1394	OG	SER	A	95131.405	-2.708	15.114	1.00	0.00	O
	ATOM	1395	H	SER	A	95134.169	-2.034	12.431	1.00	0.00	H
25	ATOM	1396	HA	SER	A	95132.070	-3.870	12.947	1.00	0.00	H
	ATOM	1397	1HB	SER	A	95133.352	-2.365	14.611	1.00	0.00	H
	ATOM	1398	2HB	SER	A	95132.210	-1.108	14.137	1.00	0.00	H
	ATOM	1399	HG	SER	A	95130.544	-2.721	14.690	1.00	0.00	H
	ATOM	1400	N	LEU	A	96129.965	-2.952	12.003	1.00	0.00	N

	ATOM	1401	CA	LEU A	96128.767	-2.486	11.316	1.00	0.00	C
	ATOM	1402	C	LEU A	96127.508	-2.961	12.035	1.00	0.00	C
	ATOM	1403	O	LEU A	96127.307	-4.159	12.230	1.00	0.00	O
	ATOM	1404	CB	LEU A	96128.759	-2.981	9.868	1.00	0.00	C
5	ATOM	1405	CG	LEU A	96129.541	-2.112	8.882	1.00	0.00	C
	ATOM	1406	CD1	LEU A	96129.667	-2.811	7.537	1.00	0.00	C
	ATOM	1407	CD2	LEU A	96128.869	-0.757	8.719	1.00	0.00	C
	ATOM	1408	H	LEU A	96129.965	-3.841	12.415	1.00	0.00	H
	ATOM	1409	HA	LEU A	96128.783	-1.407	11.317	1.00	0.00	H
10	ATOM	1410	1HB	LEU A	96129.176	-3.978	9.849	1.00	0.00	H
	ATOM	1411	2HB	LEU A	96127.733	-3.033	9.534	1.00	0.00	H
	ATOM	1412	HG	LEU A	96130.537	-1.949	9.267	1.00	0.00	H
	ATOM	1413	1HD1	LEU A	96128.875	-2.478	6.882	1.00	0.00	H
	ATOM	1414	2HD1	LEU A	96129.590	-3.880	7.679	1.00	0.00	H
15	ATOM	1415	3HD1	LEU A	96130.623	-2.574	7.096	1.00	0.00	H
	ATOM	1416	1HD2	LEU A	96128.830	-0.257	9.676	1.00	0.00	H
	ATOM	1417	2HD2	LEU A	96127.866	-0.895	8.344	1.00	0.00	H
	ATOM	1418	3HD2	LEU A	96129.435	-0.156	8.022	1.00	0.00	H
	ATOM	1419	N	GLN A	97126.665	-2.011	12.428	1.00	0.00	N
20	ATOM	1420	CA	GLN A	97125.425	-2.332	13.127	1.00	0.00	C
	ATOM	1421	C	GLN A	97124.243	-2.354	12.156	1.00	0.00	C
	ATOM	1422	O	GLN A	97123.755	-1.304	11.739	1.00	0.00	O
	ATOM	1423	CB	GLN A	97125.167	-1.315	14.240	1.00	0.00	C
	ATOM	1424	CG	GLN A	97125.424	-1.863	15.634	1.00	0.00	C
25	ATOM	1425	CD	GLN A	97124.146	-2.256	16.350	1.00	0.00	C
	ATOM	1426	OE1	GLN A	97123.962	-1.951	17.528	1.00	0.00	O
	ATOM	1427	NE2	GLN A	97123.255	-2.938	15.639	1.00	0.00	N
	ATOM	1428	H	GLN A	97126.881	-1.073	12.244	1.00	0.00	H
	ATOM	1429	HA	GLN A	97125.537	-3.311	13.565	1.00	0.00	H

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	ATOM	1430	1HB	GLN	A	97125.810	-0.461	14.089	1.00	0.00	H
	ATOM	1431	2HB	GLN	A	97124.138	-0.993	14.187	1.00	0.00	H
	ATOM	1432	1HG	GLN	A	97126.055	-2.735	15.554	1.00	0.00	H
	ATOM	1433	2HG	GLN	A	97125.928	-1.107	16.218	1.00	0.00	H
5	ATOM	1434	1HE2	GLN	A	97123.470	-3.146	14.705	1.00	0.00	H
	ATOM	1435	2HE2	GLN	A	97122.420	-3.205	16.076	1.00	0.00	H
	ATOM	1436	N	PRO	A	98123.766	-3.555	11.782	1.00	0.00	N
	ATOM	1437	CA	PRO	A	98122.638	-3.700	10.858	1.00	0.00	C
	ATOM	1438	C	PRO	A	98121.303	-3.372	11.518	1.00	0.00	C
10	ATOM	1439	O	PRO	A	98121.041	-3.783	12.649	1.00	0.00	O
	ATOM	1440	CB	PRO	A	98122.694	-5.176	10.467	1.00	0.00	C
	ATOM	1441	CG	PRO	A	98123.315	-5.851	11.641	1.00	0.00	C
	ATOM	1442	CD	PRO	A	98124.286	-4.863	12.229	1.00	0.00	C
	ATOM	1443	HA	PRO	A	98122.765	-3.085	9.979	1.00	0.00	H
15	ATOM	1444	1HB	PRO	A	98121.694	-5.541	10.282	1.00	0.00	H
	ATOM	1445	2HB	PRO	A	98123.298	-5.295	9.581	1.00	0.00	H
	ATOM	1446	1HG	PRO	A	98122.553	-6.103	12.364	1.00	0.00	H
	ATOM	1447	2HG	PRO	A	98123.834	-6.741	11.320	1.00	0.00	H
	ATOM	1448	1HD	PRO	A	98124.284	-4.928	13.307	1.00	0.00	H
20	ATOM	1449	2HD	PRO	A	98125.279	-5.033	11.841	1.00	0.00	H
	ATOM	1450	N	SER	A	99120.462	-2.631	10.804	1.00	0.00	N
	ATOM	1451	CA	SER	A	99119.153	-2.249	11.322	1.00	0.00	C
	ATOM	1452	C	SER	A	99118.076	-3.219	10.847	1.00	0.00	C
	ATOM	1453	O	SER	A	99117.225	-3.649	11.627	1.00	0.00	O
25	ATOM	1454	CB	SER	A	99118.803	-0.826	10.882	1.00	0.00	C
	ATOM	1455	OG	SER	A	99117.906	-0.216	11.794	1.00	0.00	O
	ATOM	1456	H	SER	A	99120.727	-2.335	9.909	1.00	0.00	H
	ATOM	1457	HA	SER	A	99119.200	-2.282	12.399	1.00	0.00	H
	ATOM	1458	1HB	SER	A	99119.705	-0.235	10.834	1.00	0.00	H

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	ATOM	1459	2HB	SER A	99118.341	-0.857	9.907	1.00	0.00	H
	ATOM	1460	HG	SER A	99117.119	0.070	11.326	1.00	0.00	H
	ATOM	1461	N	GLY A	100118.117	-3.561	9.563	1.00	0.00	N
	ATOM	1462	CA	GLY A	100117.140	-4.477	-9.006	1.00	0.00	C
5	ATOM	1463	C	GLY A	100117.762	-5.478	8.050	1.00	0.00	C
	ATOM	1464	O	GLY A	100118.930	-5.840	8.200	1.00	0.00	O
	ATOM	1465	H	GLY A	100118.819	-3.187	8.988	1.00	0.00	H
	ATOM	1466	1HA	GLY A	100116.667	-5.015	9.815	1.00	0.00	H
	ATOM	1467	2HA	GLY A	100116.390	-3.909	8.478	1.00	0.00	H
10	ATOM	1468	N	PRO A	101117.001	-5.947	7.047	1.00	0.00	N
	ATOM	1469	CA	PRO A	101117.498	-6.916	6.065	1.00	0.00	C
	ATOM	1470	C	PRO A	101118.546	-6.311	5.135	1.00	0.00	C
	ATOM	1471	O	PRO A	101119.493	-6.984	4.730	1.00	0.00	O
	ATOM	1472	CB	PRO A	101116.244	-7.303	5.277	1.00	0.00	C
15	ATOM	1473	CG	PRO A	101115.329	-6.138	5.425	1.00	0.00	C
	ATOM	1474	CD	PRO A	101115.598	-5.570	6.791	1.00	0.00	C
	ATOM	1475	HA	PRO A	101117.909	-7.791	6.546	1.00	0.00	H
	ATOM	1476	1HB	PRO A	101116.503	-7.474	4.243	1.00	0.00	H
	ATOM	1477	2HB	PRO A	101115.813	-8.199	5.699	1.00	0.00	H
20	ATOM	1478	1HG	PRO A	101115.545	-5.402	4.664	1.00	0.00	H
	ATOM	1479	2HG	PRO A	101114.302	-6.465	5.351	1.00	0.00	H
	ATOM	1480	1HD	PRO A	101115.482	-4.497	6.784	1.00	0.00	H
	ATOM	1481	2HD	PRO A	101114.940	-6.018	7.522	1.00	0.00	H
	ATOM	1482	N	SER A	102118.367	-5.037	4.801	1.00	0.00	N
25	ATOM	1483	CA	SER A	102119.297	-4.341	3.919	1.00	0.00	C
	ATOM	1484	C	SER A	102118.912	-2.873	3.773	1.00	0.00	C
	ATOM	1485	O	SER A	102119.748	-1.983	3.931	1.00	0.00	O
	ATOM	1486	CB	SER A	102119.328	-5.012	2.544	1.00	0.00	C
	ATOM	1487	OG	SER A	102118.028	-5.404	2.138	1.00	0.00	O



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	ATOM	1488	H	SER A	102117.592	-4.554	5.156	1.00	0.00	H
	ATOM	1489	HA	SER A	102120.281	-4.401	4.361	1.00	0.00	H
	ATOM	1490	1HB	SER A	102119.724	-4.319	1.817	1.00	0.00	H
	ATOM	1491	2HB	SER A	102119.958	-5.888	2.587	1.00	0.00	H
5	ATOM	1492	HG	SER A	102117.584	-4.662	1.720	1.00	0.00	H
	ATOM	1493	N	SER A	103117.641	-2.626	3.472	1.00	0.00	N
	ATOM	1494	CA	SER A	103117.145	-1.265	3.305	1.00	0.00	C
	ATOM	1495	C	SER A	103115.622	-1.246	3.240	1.00	0.00	C
	ATOM	1496	O	SER A	103114.978	-2.295	3.195	1.00	0.00	O
10	ATOM	1497	CB	SER A	103117.729	-0.639	2.037	1.00	0.00	C
	ATOM	1498	OG	SER A	103118.925	0.066	2.321	1.00	0.00	O
	ATOM	1499	H	SER A	103117.022	-3.378	3.359	1.00	0.00	H
	ATOM	1500	HA	SER A	103117.465	-0.689	4.160	1.00	0.00	H
	ATOM	1501	1HB	SER A	103117.946	-1.417	1.321	1.00	0.00	H
15	ATOM	1502	2HB	SER A	103117.011	0.048	1.615	1.00	0.00	H
	ATOM	1503	HG	SER A	103119.621	-0.234	1.732	1.00	0.00	H
	ATOM	1504	N	GLY A	104115.049	-0.046	3.236	1.00	0.00	N
	ATOM	1505	CA	GLY A	104113.605	0.086	3.176	1.00	0.00	C
	ATOM	1506	C	GLY A	104113.168	1.467	2.728	1.00	0.00	C
20	ATOM	1507	O	GLY A	104112.708	2.251	3.585	1.00	0.00	O
	ATOM	1508	OXT	GLY A	104113.285	1.764	1.521	1.00	0.00	O
	ATOM	1509	H	GLY A	104115.612	0.755	3.273	1.00	0.00	H
	ATOM	1510	1HA	GLY A	104113.216	-0.645	2.484	1.00	0.00	H
	ATOM	1511	2HA	GLY A	104113.196	-0.108	4.157	1.00	0.00	H
25	TER	1512	GLY A	104						
	ENDMDL									

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ATOM 1 N GLY A 1127.996 -5.495 4.967 1.00 0.00 N

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	ATOM 2	CA	GLY A	1127.436	-4.222	5.499	1.00	0.00	C
	ATOM 3	C	GLY A	1127.407	-3.121	4.459	1.00	0.00	C
	ATOM 4	O	GLY A	1126.530	-2.258	4.483	1.00	0.00	O
	ATOM 5	1H	GLY A	1129.036	-5.459	4.975	1.00	0.00	H
5	ATOM 6	2H	GLY A	1127.674	-5.646	3.989	1.00	0.00	H
	ATOM 7	3H	GLY A	1127.683	-6.296	5.551	1.00	0.00	H
	ATOM 8	1HA	GLY A	1126.428	-4.402	5.845	1.00	0.00	H
	ATOM 9	2HA	GLY A	1128.040	-3.898	6.334	1.00	0.00	H
	ATOM10	N	SER A	2128.369	-3.150	3.543	1.00	0.00	N
10	ATOM11	CA	SER A	2128.452	-2.145	2.488	1.00	0.00	C
	ATOM12	C	SER A	2127.262	-2.254	1.539	1.00	0.00	C
	ATOM13	O	SER A	2126.460	-1.327	1.425	1.00	0.00	O
	ATOM14	CB	SER A	2129.758	-2.301	1.707	1.00	0.00	C
	ATOM15	OG	SER A	2130.194	-3.649	1.704	1.00	0.00	O
15	ATOM16	H	SER A	2129.040	-3.863	3.576	1.00	0.00	H
	ATOM17	HA	SER A	2128.436	-1.172	2.956	1.00	0.00	H
	ATOM18	1HB	SER A	2129.604	-1.984	0.686	1.00	0.00	H
	ATOM19	2HB	SER A	2130.522	-1.688	2.163	1.00	0.00	H
	ATOM20	HG	SER A	2130.040	-4.034	0.839	1.00	0.00	H
20	ATOM21	N	SER A	3127.155	-3.392	0.861	1.00	0.00	N
	ATOM22	CA	SER A	3126.063	-3.622	-0.079	1.00	0.00	C
	ATOM23	C	SER A	3124.712	-3.534	0.624	1.00	0.00	C
	ATOM24	O	SER A	3124.618	-3.732	1.836	1.00	0.00	O
	ATOM25	CB	SER A	3126.216	-4.989	-0.747	1.00	0.00	C
25	ATOM26	OG	SER A	3126.958	-4.889	-1.950	1.00	0.00	O
	ATOM27	H	SER A	3127.825	-4.094	0.995	1.00	0.00	H
	ATOM28	HA	SER A	3126.111	-2.853	-0.836	1.00	0.00	H
	ATOM29	1HB	SER A	3126.733	-5.659	-0.076	1.00	0.00	H
	ATOM30	2HB	SER A	3125.239	-5.388	-0.972	1.00	0.00	H

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	ATOM31	HG	SER A	3127.724	-4.327	-1.809	1.00	0.00	H
	ATOM32	N	GLY A	4123.668	-3.236	-0.143	1.00	0.00	N
	ATOM33	CA	GLY A	4122.338	-3.127	0.425	1.00	0.00	C
	ATOM34	C	GLY A	4122.252	-2.063	1.500	1.00	0.00	C
5	ATOM35	O	GLY A	4123.271	-1.522	1.928	1.00	0.00	O
	ATOM36	H	GLY A	4123.804	-3.088	-1.103	1.00	0.00	H
	ATOM37	1HA	GLY A	4121.641	-2.885	-0.364	1.00	0.00	H
	ATOM38	2HA	GLY A	4122.062	-4.080	0.853	1.00	0.00	H
	ATOM39	N	SER A	5121.032	-1.761	1.938	1.00	0.00	N
10	ATOM40	CA	SER A	5120.812	-0.752	2.971	1.00	0.00	C
	ATOM41	C	SER A	5121.111	0.647	2.440	1.00	0.00	C
	ATOM42	O	SER A	5120.218	1.488	2.344	1.00	0.00	O
	ATOM43	CB	SER A	5121.680	-1.042	4.198	1.00	0.00	C
	ATOM44	OG	SER A	5120.979	-0.763	5.397	1.00	0.00	O
15	ATOM45	H	SER A	5120.260	-2.229	1.555	1.00	0.00	H
	ATOM46	HA	SER A	5119.773	-0.799	3.259	1.00	0.00	H
	ATOM47	1HB	SER A	5121.964	-2.085	4.197	1.00	0.00	H
	ATOM48	2HB	SER A	5122.568	-0.428	4.162	1.00	0.00	H
	ATOM49	HG	SER A	5120.189	-1.306	5.440	1.00	0.00	H
20	ATOM50	N	SER A	6122.373	0.889	2.097	1.00	0.00	N
	ATOM51	CA	SER A	6122.793	2.186	1.576	1.00	0.00	C
	ATOM52	C	SER A	6122.700	3.261	2.653	1.00	0.00	C
	ATOM53	O	SER A	6121.654	3.883	2.837	1.00	0.00	O
	ATOM54	CB	SER A	6121.937	2.580	0.369	1.00	0.00	C
25	ATOM55	OG	SER A	6121.576	1.443	-0.394	1.00	0.00	O
	ATOM56	H	SER A	6123.040	0.178	2.198	1.00	0.00	H
	ATOM57	HA	SER A	6123.822	2.098	1.262	1.00	0.00	H
	ATOM58	1HB	SER A	6121.038	3.068	0.713	1.00	0.00	H
	ATOM59	2HB	SER A	6122.497	3.259	-0.259	1.00	0.00	H

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	ATOM60	HG	SER	A	6120.764	1.623	-0.873	1.00	0.00	H
	ATOM61	N	GLY	A	7123.804	3.476	3.363	1.00	0.00	N
	ATOM62	CA	GLY	A	7123.829	4.477	4.412	1.00	0.00	C
	ATOM63	C	GLY	A	7125.104	5.296	4.400	1.00	0.00	C
5	ATOM64	O	GLY	A	7125.065	6.520	4.527	1.00	0.00	O
	ATOM65	H	GLY	A	7124.609	2.950	3.170	1.00	0.00	H
	ATOM66	1HA	GLY	A	7122.986	5.140	4.283	1.00	0.00	H
	ATOM67	2HA	GLY	A	7123.740	3.983	5.369	1.00	0.00	H
	ATOM68	N	LEU	A	8126.238	4.620	4.248	1.00	0.00	N
10	ATOM69	CA	LEU	A	8127.532	5.292	4.219	1.00	0.00	C
	ATOM70	C	LEU	A	8128.105	5.309	2.805	1.00	0.00	C
	ATOM71	O	LEU	A	8128.927	4.466	2.448	1.00	0.00	O
	ATOM72	CB	LEU	A	8128.512	4.600	5.169	1.00	0.00	C
	ATOM73	CG	LEU	A	8127.931	4.217	6.531	1.00	0.00	C
15	ATOM74	CD1	LEU	A	8128.639	2.991	7.087	1.00	0.00	C
	ATOM75	CD2	LEU	A	8128.039	5.384	7.502	1.00	0.00	C
	ATOM76	H	LEU	A	8126.204	3.645	4.152	1.00	0.00	H
	ATOM77	HA	LEU	A	8127.384	6.310	4.548	1.00	0.00	H
	ATOM78	1HB	LEU	A	8128.872	3.702	4.689	1.00	0.00	H
20	ATOM79	2HB	LEU	A	8129.349	5.261	5.333	1.00	0.00	H
	ATOM80	HG	LEU	A	8126.885	3.974	6.415	1.00	0.00	H
	ATOM81	1HD1	LEU	A	8128.427	2.901	8.143	1.00	0.00	H
	ATOM82	2HD1	LEU	A	8129.705	3.094	6.942	1.00	0.00	H
	ATOM83	3HD1	LEU	A	8128.288	2.108	6.573	1.00	0.00	H
25	ATOM84	1HD2	LEU	A	8127.268	5.299	8.253	1.00	0.00	H
	ATOM85	2HD2	LEU	A	8127.917	6.312	6.964	1.00	0.00	H
	ATOM86	3HD2	LEU	A	8129.008	5.368	7.978	1.00	0.00	H
	ATOM87	N	ALA	A	9127.663	6.274	2.004	1.00	0.00	N
	ATOM88	CA	ALA	A	9128.131	6.400	0.630	1.00	0.00	C

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	ATOM89	C	ALA A	9128.306	7.864	0.241	1.00	0.00	C	
	ATOM90	O	ALA A	9127.411	8.683	0.450	1.00	0.00	O	
	ATOM91	CB	ALA A	9127.166	5.710	-0.321	1.00	0.00	C	
	ATOM92	H	ALA A	9127.007	6.917	2.347	1.00	0.00	H	
5	ATOM93	HA	ALA A	9129.088	5.903	0.558	1.00	0.00	H	
	ATOM94	1HB	ALA A	9126.500	6.444	-0.753	1.00	0.00	H	
	ATOM95	2HB	ALA A	9126.588	4.976	0.222	1.00	0.00	H	
	ATOM96	3HB	ALA A	9127.721	5.222	-1.107	1.00	0.00	H	
	ATOM97	N	MET A	10129.464	8.186	-0.326	1.00	0.00	N	
10	ATOM98	CA	MET A	10129.755	9.553	-0.746	1.00	0.00	C	
	ATOM99	C	MET A	10130.359	9.575	-2.148	1.00	0.00	C	
	ATOM	100	O	MET A	10131.577	9.500	-2.309	1.00	0.00	O
	ATOM	101	CB	MET A	10130.713	10.218	0.244	1.00	0.00	C
	ATOM	102	CG	MET A	10130.546	11.726	0.332	1.00	0.00	C
15	ATOM	103	SD	MET A	10132.032	12.556	0.926	1.00	0.00	S
	ATOM	104	CE	MET A	10132.482	11.502	2.302	1.00	0.00	C
	ATOM	105	H	MET A	10130.137	7.489	-0.466	1.00	0.00	H
	ATOM	106	HA	MET A	10128.826	10.101	-0.756	1.00	0.00	H
	ATOM	107	1HB	MET A	10130.546	9.801	1.225	1.00	0.00	H
20	ATOM	108	2HB	MET A	10131.728	10.008	-0.059	1.00	0.00	H
	ATOM	109	1HG	MET A	10130.307	12.107	-0.649	1.00	0.00	H
	ATOM	110	2HG	MET A	10129.733	11.945	1.009	1.00	0.00	H
	ATOM	111	1HE	MET A	10131.660	10.838	2.531	1.00	0.00	H
	ATOM	112	2HE	MET A	10132.704	12.111	3.166	1.00	0.00	H
25	ATOM	113	3HE	MET A	10133.353	10.919	2.040	1.00	0.00	H
	ATOM	114	N	PRO A	11129.510	9.679	-3.186	1.00	0.00	N
	ATOM	115	CA	PRO A	11129.968	9.712	-4.578	1.00	0.00	C
	ATOM	116	C	PRO A	11130.980	10.829	-4.830	1.00	0.00	C
	ATOM	117	O	PRO A	11132.013	10.604	-5.461	1.00	0.00	O

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	ATOM	118	CB	PRO A	11128.690	9.958	-5.383	1.00	0.00	C
	ATOM	119	CG	PRO A	11127.575	9.536	-4.490	1.00	0.00	C
	ATOM	120	CD	PRO A	11128.044	9.776	-3.082	1.00	0.00	C
	ATOM	121	HA	PRO A	11130.404	8.768	-4.869	1.00	0.00	H
5	ATOM	122	1HB	PRO A	11128.619	11.004	-5.640	1.00	0.00	H
	ATOM	123	2HB	PRO A	11128.714	9.365	-6.286	1.00	0.00	H
	ATOM	124	1HG	PRO A	11126.699	10.131	-4.695	1.00	0.00	H
	ATOM	125	2HG	PRO A	11127.361	8.488	-4.639	1.00	0.00	H
	ATOM	126	1HD	PRO A	11127.745	10.759	-2.747	1.00	0.00	H
10	ATOM	127	2HD	PRO A	11127.654	9.016	-2.420	1.00	0.00	H
	ATOM	128	N	PRO A	12130.705	12.051	-4.336	1.00	0.00	N
	ATOM	129	CA	PRO A	12131.611	13.191	-4.516	1.00	0.00	C
	ATOM	130	C	PRO A	12132.995	12.918	-3.938	1.00	0.00	C
	ATOM	131	O	PRO A	12133.971	13.573	-4.303	1.00	0.00	O
15	ATOM	132	CB	PRO A	12130.928	14.329	-3.749	1.00	0.00	C
	ATOM	133	CG	PRO A	12129.499	13.920	-3.643	1.00	0.00	C
	ATOM	134	CD	PRO A	12129.506	12.421	-3.563	1.00	0.00	C
	ATOM	135	HA	PRO A	12131.705	13.460	-5.558	1.00	0.00	H
	ATOM	136	1HB	PRO A	12131.382	14.431	-2.775	1.00	0.00	H
20	ATOM	137	2HB	PRO A	12131.033	15.251	-4.300	1.00	0.00	H
	ATOM	138	1HG	PRO A	12129.061	14.342	-2.750	1.00	0.00	H
	ATOM	139	2HG	PRO A	12128.957	14.246	-4.519	1.00	0.00	H
	ATOM	140	1HD	PRO A	12129.593	12.098	-2.536	1.00	0.00	H
	ATOM	141	2HD	PRO A	12128.615	12.015	-4.013	1.00	0.00	H
25	ATOM	142	N	GLY A	13133.070	11.946	-3.033	1.00	0.00	N
	ATOM	143	CA	GLY A	13134.339	11.603	-2.418	1.00	0.00	C
	ATOM	144	C	GLY A	13135.224	10.780	-3.333	1.00	0.00	C
	ATOM	145	O	GLY A	13135.246	10.995	-4.545	1.00	0.00	O
	ATOM	146	H	GLY A	13132.258	11.458	-2.781	1.00	0.00	H

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	ATOM	147	1HA	GLY A	13134.858	12.515	-2.158	1.00	0.00	H
	ATOM	148	2HA	GLY A	13134.149	11.040	-1.517	1.00	0.00	H
	ATOM	149	N	ASN A	14135.956	9.835	-2.753	1.00	0.00	N
	ATOM	150	CA	ASN A	14136.846	8.976	-3.524	1.00	0.00	C
5	ATOM	151	C	ASN A	14136.100	7.759	-4.061	1.00	0.00	C
	ATOM	152	O	ASN A	14136.231	7.404	-5.232	1.00	0.00	O
	ATOM	153	CB	ASN A	14138.027	8.525	-2.662	1.00	0.00	C
	ATOM	154	CG	ASN A	14138.857	9.692	-2.162	1.00	0.00	C
	ATOM	155	OD1	ASN A	14138.854	10.769	-2.756	1.00	0.00	O
10	ATOM	156	ND2	ASN A	14139.573	9.481	-1.064	1.00	0.00	N
	ATOM	157	H	ASN A	14135.895	9.712	-1.782	1.00	0.00	H
	ATOM	158	HA	ASN A	14137.220	9.551	-4.358	1.00	0.00	H
	ATOM	159	1HB	ASN A	14137.653	7.982	-1.806	1.00	0.00	H
	ATOM	160	2HB	ASN A	14138.663	7.876	-3.245	1.00	0.00	H
15	ATOM	161	1HD2	ASN A	14139.527	8.597	-0.644	1.00	0.00	H
	ATOM	162	2HD2	ASN A	14140.120	10.217	-0.719	1.00	0.00	H
	ATOM	163	N	SER A	15135.315	7.125	-3.196	1.00	0.00	N
	ATOM	164	CA	SER A	15134.547	5.947	-3.583	1.00	0.00	C
	ATOM	165	C	SER A	15133.644	5.488	-2.442	1.00	0.00	C
20	ATOM	166	O	SER A	15132.494	5.108	-2.662	1.00	0.00	O
	ATOM	167	CB	SER A	15135.486	4.812	-3.996	1.00	0.00	C
	ATOM	168	OG	SER A	15136.245	4.351	-2.892	1.00	0.00	O
	ATOM	169	H	SER A	15135.251	7.455	-2.275	1.00	0.00	H
	ATOM	170	HA	SER A	15133.930	6.217	-4.427	1.00	0.00	H
25	ATOM	171	1HB	SER A	15134.904	3.989	-4.385	1.00	0.00	H
	ATOM	172	2HB	SER A	15136.162	5.168	-4.759	1.00	0.00	H
	ATOM	173	HG	SER A	15137.023	4.903	-2.786	1.00	0.00	H
	ATOM	174	N	HIS A	16134.175	5.525	-1.224	1.00	0.00	N
	ATOM	175	CA	HIS A	16133.417	5.111	-0.049	1.00	0.00	C

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	ATOM	176	C	HIS A	16133.979	5.757	1.214	1.00	0.00	C
	ATOM	177	O	HIS A	16133.236	6.307	2.026	1.00	0.00	O
	ATOM	178	CB	HIS A	16133.435	3.586	0.086	1.00	0.00	C
	ATOM	179	CG	HIS A	16132.079	2.962	-0.010	1.00	0.00	C
5	ATOM	180	ND1	HIS A	16131.135	3.053	0.991	1.00	0.00	N
	ATOM	181	CD2	HIS A	16131.507	2.232	-0.998	1.00	0.00	C
	ATOM	182	CE1	HIS A	16130.042	2.407	0.624	1.00	0.00	C
	ATOM	183	NE2	HIS A	16130.242	1.900	-0.578	1.00	0.00	N
	ATOM	184	H	HIS A	16135.097	5.836	-1.113	1.00	0.00	H
10	ATOM	185	HA	HIS A	16132.397	5.439	-0.181	1.00	0.00	H
	ATOM	186	1HB	HIS A	16134.049	3.170	-0.699	1.00	0.00	H
	ATOM	187	2HB	HIS A	16133.858	3.320	1.044	1.00	0.00	H
	ATOM	188	HD1	HIS A	16131.249	3.521	1.845	1.00	0.00	H
	ATOM	189	HD2	HIS A	16131.962	1.962	-1.940	1.00	0.00	H
15	ATOM	190	HE1	HIS A	16129.139	2.311	1.208	1.00	0.00	H
	ATOM	191	HE2	HIS A	16129.625	1.303	-1.049	1.00	0.00	H
	ATOM	192	N	GLY A	17135.297	5.683	1.373	1.00	0.00	N
	ATOM	193	CA	GLY A	17135.936	6.264	2.539	1.00	0.00	C
	ATOM	194	C	GLY A	17137.228	5.562	2.903	1.00	0.00	C
20	ATOM	195	O	GLY A	17137.354	5.004	3.994	1.00	0.00	O
	ATOM	196	H	GLY A	17135.839	5.232	0.693	1.00	0.00	H
	ATOM	197	1HA	GLY A	17136.149	7.304	2.339	1.00	0.00	H
	ATOM	198	2HA	GLY A	17135.257	6.203	3.377	1.00	0.00	H
	ATOM	199	N	LEU A	18138.193	5.587	1.989	1.00	0.00	N
25	ATOM	200	CA	LEU A	18139.483	4.948	2.219	1.00	0.00	C
	ATOM	201	C	LEU A	18140.546	5.982	2.577	1.00	0.00	C
	ATOM	202	O	LEU A	18140.944	6.792	1.741	1.00	0.00	O
	ATOM	203	CB	LEU A	18139.915	4.162	0.980	1.00	0.00	C
	ATOM	204	CG	LEU A	18138.847	3.235	0.396	1.00	0.00	C



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	ATOM	205	CD1	LEU	A	18139.067	3.043	-1.097	1.00	0.00	C
	ATOM	206	CD2	LEU	A	18138.857	1.894	1.114	1.00	0.00	C
	ATOM	207	H	LEU	A	18138.033	6.049	1.139	1.00	0.00	H
	ATOM	208	HA	LEU	A	18139.370	4.264	3.047	1.00	0.00	H
5	ATOM	209	1HB	LEU	A	18140.207	4.868	0.216	1.00	0.00	H
	ATOM	210	2HB	LEU	A	18140.775	3.563	1.240	1.00	0.00	H
	ATOM	211	HG	LEU	A	18137.875	3.684	0.534	1.00	0.00	H
	ATOM	212	1HD1	LEU	A	18138.111	2.991	-1.597	1.00	0.00	H
	ATOM	213	2HD1	LEU	A	18139.612	2.126	-1.266	1.00	0.00	H
10	ATOM	214	3HD1	LEU	A	18139.632	3.876	-1.488	1.00	0.00	H
	ATOM	215	1HD2	LEU	A	18137.880	1.440	1.041	1.00	0.00	H
	ATOM	216	2HD2	LEU	A	18139.107	2.045	2.154	1.00	0.00	H
	ATOM	217	3HD2	LEU	A	18139.590	1.246	0.658	1.00	0.00	H
	ATOM	218	N	GLU	A	19141.003	5.945	3.825	1.00	0.00	N
15	ATOM	219	CA	GLU	A	19142.020	6.879	4.293	1.00	0.00	C
	ATOM	220	C	GLU	A	19143.006	6.186	5.228	1.00	0.00	C
	ATOM	221	O	GLU	A	19142.874	4.996	5.513	1.00	0.00	O
	ATOM	222	CB	GLU	A	19141.365	8.062	5.010	1.00	0.00	C
	ATOM	223	CG	GLU	A	19140.356	7.647	6.069	1.00	0.00	C
20	ATOM	224	CD	GLU	A	19140.441	8.499	7.320	1.00	0.00	C
	ATOM	225	OE1	GLU	A	19139.379	8.824	7.891	1.00	0.00	O
	ATOM	226	OE2	GLU	A	19141.570	8.843	7.730	1.00	0.00	O
	ATOM	227	H	GLU	A	19140.647	5.276	4.445	1.00	0.00	H
	ATOM	228	HA	GLU	A	19142.556	7.246	3.431	1.00	0.00	H
25	ATOM	229	1HB	GLU	A	19142.135	8.649	5.487	1.00	0.00	H
	ATOM	230	2HB	GLU	A	19140.856	8.674	4.280	1.00	0.00	H
	ATOM	231	1HG	GLU	A	19139.363	7.738	5.657	1.00	0.00	H
	ATOM	232	2HG	GLU	A	19140.540	6.618	6.340	1.00	0.00	H
	ATOM	233	N	VAL	A	20143.994	6.939	5.702	1.00	0.00	N

	ATOM	234	CA	VAL A	20145.003	6.398	6.605	1.00	0.00	C
	ATOM	235	C	VAL A	20144.363	5.835	7.870	1.00	0.00	C
	ATOM	236	O	VAL A	20143.408	6.402	8.400	1.00	0.00	O
	ATOM	237	CB	VAL A	20146.035	7.470	7.000	1.00	0.00	C
5	ATOM	238	CG1	VAL A	20147.175	6.849	7.793	1.00	0.00	C
	ATOM	239	CG2	VAL A	20146.563	8.184	5.765	1.00	0.00	C
	ATOM	240	H	VAL A	20144.045	7.882	5.438	1.00	0.00	H
	ATOM	241	HA	VAL A	20145.520	5.603	6.089	1.00	0.00	H
	ATOM	242	HB	VAL A	20145.546	8.199	7.628	1.00	0.00	H
10	ATOM	243	1HG1	VAL A	20146.826	6.589	8.781	1.00	0.00	H
	ATOM	244	2HG1	VAL A	20147.987	7.558	7.873	1.00	0.00	H
	ATOM	245	3HG1	VAL A	20147.523	5.960	7.289	1.00	0.00	H
	ATOM	246	1HG2	VAL A	20145.905	9.001	5.513	1.00	0.00	H
	ATOM	247	2HG2	VAL A	20146.608	7.489	4.939	1.00	0.00	H
15	ATOM	248	3HG2	VAL A	20147.552	8.568	5.965	1.00	0.00	H
	ATOM	249	N	GLY A	21144.897	4.714	8.348	1.00	0.00	N
	ATOM	250	CA	GLY A	21144.365	4.094	9.547	1.00	0.00	C
	ATOM	251	C	GLY A	21143.362	2.999	9.237	1.00	0.00	C
	ATOM	252	O	GLY A	21143.332	1.968	9.909	1.00	0.00	O
20	ATOM	253	H	GLY A	21145.657	4.307	7.882	1.00	0.00	H
	ATOM	254	1HA	GLY A	21145.181	3.670	10.111	1.00	0.00	H
	ATOM	255	2HA	GLY A	21143.881	4.850	10.147	1.00	0.00	H
	ATOM	256	N	SER A	22142.540	3.222	8.216	1.00	0.00	N
	ATOM	257	CA	SER A	22141.533	2.247	7.819	1.00	0.00	C
25	ATOM	258	C	SER A	22142.140	1.169	6.927	1.00	0.00	C
	ATOM	259	O	SER A	22143.184	1.377	6.308	1.00	0.00	O
	ATOM	260	CB	SER A	22140.381	2.940	7.088	1.00	0.00	C
	ATOM	261	OG	SER A	22139.915	4.061	7.820	1.00	0.00	O
	ATOM	262	H	SER A	22142.615	4.063	7.719	1.00	0.00	H

	ATOM	263	HA	SER A	22141.150	1.782	8.716	1.00	0.00	H
	ATOM	264	1HB	SER A	22140.722	3.275	6.120	1.00	0.00	H
	ATOM	265	2HB	SER A	22139.566	2.244	6.962	1.00	0.00	H
	ATOM	266	HG	SER A	22139.825	3.824	8.746	1.00	0.00	H
5	ATOM	267	N	LEU A	23141.480	0.017	6.867	1.00	0.00	N
	ATOM	268	CA	LEU A	23141.956	-1.095	6.052	1.00	0.00	C
	ATOM	269	C	LEU A	23141.365	-1.033	4.648	1.00	0.00	C
	ATOM	270	O	LEU A	23140.256	-0.536	4.451	1.00	0.00	O
	ATOM	271	CB	LEU A	23141.597	-2.428	6.711	1.00	0.00	C
10	ATOM	272	CG	LEU A	23142.398	-2.764	7.970	1.00	0.00	C
	ATOM	273	CD1	LEU A	23141.572	-3.626	8.913	1.00	0.00	C
	ATOM	274	CD2	LEU A	23143.697	-3.466	7.602	1.00	0.00	C
	ATOM	275	H	LEU A	23140.655	-0.089	7.384	1.00	0.00	H
	ATOM	276	HA	LEU A	23143.031	-1.017	5.981	1.00	0.00	H
15	ATOM	277	1HB	LEU A	23140.549	-2.406	6.971	1.00	0.00	H
	ATOM	278	2HB	LEU A	23141.755	-3.216	5.990	1.00	0.00	H
	ATOM	279	HG	LEU A	23142.646	-1.848	8.485	1.00	0.00	H
	ATOM	280	1HD1	LEU A	23141.798	-4.668	8.739	1.00	0.00	H
	ATOM	281	2HD1	LEU A	23140.522	-3.451	8.734	1.00	0.00	H
20	ATOM	282	3HD1	LEU A	23141.811	-3.372	9.935	1.00	0.00	H
	ATOM	283	1HD2	LEU A	23144.307	-3.580	8.485	1.00	0.00	H
	ATOM	284	2HD2	LEU A	23144.230	-2.877	6.870	1.00	0.00	H
	ATOM	285	3HD2	LEU A	23143.475	-4.439	7.190	1.00	0.00	H
	ATOM	286	N	ALA A	24142.112	-1.543	3.674	1.00	0.00	N
25	ATOM	287	CA	ALA A	24141.663	-1.547	2.287	1.00	0.00	C
	ATOM	288	C	ALA A	24142.247	-2.733	1.526	1.00	0.00	C
	ATOM	289	O	ALA A	24143.268	-3.294	1.920	1.00	0.00	O
	ATOM	290	CB	ALA A	24142.041	-0.242	1.605	1.00	0.00	C
	ATOM	291	H	ALA A	24142.987	-1.926	3.894	1.00	0.00	H

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	ATOM	292	HA	ALA A	24140.585	-1.627	2.286	1.00	0.00	H
	ATOM	293	1HB	ALA A	24143.115	-0.194	1.488	1.00	0.00	H
	ATOM	294	2HB	ALA A	24141.710	0.590	2.210	1.00	0.00	H
	ATOM	295	3HB	ALA A	24141.571	-0.191	0.635	1.00	0.00	H
5	ATOM	296	N	GLU A	25141.590	-3.108	0.432	1.00	0.00	N
	ATOM	297	CA	GLU A	25142.043	-4.228	-0.385	1.00	0.00	C
	ATOM	298	C	GLU A	25142.350	-3.772	-1.808	1.00	0.00	C
	ATOM	299	O	GLU A	25141.727	-2.844	-2.321	1.00	0.00	O
	ATOM	300	CB	GLU A	25140.984	-5.332	-0.407	1.00	0.00	C
10	ATOM	301	CG	GLU A	25141.514	-6.676	-0.879	1.00	0.00	C
	ATOM	302	CD	GLU A	25140.504	-7.441	-1.711	1.00	0.00	C
	ATOM	303	OE1	GLU A	25140.920	-8.347	-2.463	1.00	0.00	O
	ATOM	304	OE2	GLU A	25139.298	-7.134	-1.611	1.00	0.00	O
	ATOM	305	H	GLU A	25140.781	-2.621	0.169	1.00	0.00	H
15	ATOM	306	HA	GLU A	25142.947	-4.617	0.058	1.00	0.00	H
	ATOM	307	1HB	GLU A	25140.589	-5.454	0.590	1.00	0.00	H
	ATOM	308	2HB	GLU A	25140.184	-5.032	-1.068	1.00	0.00	H
	ATOM	309	1HG	GLU A	25142.399	-6.511	-1.476	1.00	0.00	H
	ATOM	310	2HG	GLU A	25141.771	-7.270	-0.013	1.00	0.00	H
20	ATOM	311	N	VAL A	26143.315	-4.433	-2.442	1.00	0.00	N
	ATOM	312	CA	VAL A	26143.705	-4.095	-3.805	1.00	0.00	C
	ATOM	313	C	VAL A	26143.324	-5.207	-4.777	1.00	0.00	C
	ATOM	314	O	VAL A	26143.308	-6.383	-4.414	1.00	0.00	O
	ATOM	315	CB	VAL A	26145.219	-3.835	-3.909	1.00	0.00	C
25	ATOM	316	CG1	VAL A	26145.574	-3.289	-5.284	1.00	0.00	C
	ATOM	317	CG2	VAL A	26145.674	-2.882	-2.814	1.00	0.00	C
	ATOM	318	H	VAL A	26143.776	-5.165	-1.979	1.00	0.00	H
	ATOM	319	HA	VAL A	26143.184	-3.191	-4.086	1.00	0.00	H
	ATOM	320	HB	VAL A	26145.735	-4.775	-3.776	1.00	0.00	H

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	ATOM	321	1HG1	VAL	A	26145.885	-4.100	-5.925	1.00	0.00	H
	ATOM	322	2HG1	VAL	A	26146.379	-2.575	-5.190	1.00	0.00	H
	ATOM	323	3HG1	VAL	A	26144.710	-2.802	-5.712	1.00	0.00	H
	ATOM	324	1HG2	VAL	A	26145.138	-1.948	-2.905	1.00	0.00	H
5	ATOM	325	2HG2	VAL	A	26146.733	-2.700	-2.913	1.00	0.00	H
	ATOM	326	3HG2	VAL	A	26145.472	-3.321	-1.849	1.00	0.00	H
	ATOM	327	N	LYS	A	27143.019	-4.827	-6.013	1.00	0.00	N
	ATOM	328	CA	LYS	A	27142.638	-5.792	-7.038	1.00	0.00	C
	ATOM	329	C	LYS	A	27143.856	-6.246	-7.835	1.00	0.00	C
10	ATOM	330	O	LYS	A	27144.131	-5.728	-8.917	1.00	0.00	O
	ATOM	331	CB	LYS	A	27141.596	-5.184	-7.978	1.00	0.00	C
	ATOM	332	CG	LYS	A	27140.860	-6.215	-8.820	1.00	0.00	C
	ATOM	333	CD	LYS	A	27141.342	-6.206	-10.262	1.00	0.00	C
	ATOM	334	CE	LYS	A	27141.289	-7.596	-10.876	1.00	0.00	C
15	ATOM	335	NZ	LYS	A	27141.792	-7.605	-12.277	1.00	0.00	N
	ATOM	336	H	LYS	A	27143.050	-3.875	-6.241	1.00	0.00	H
	ATOM	337	HA	LYS	A	27142.208	-6.649	-6.542	1.00	0.00	H
	ATOM	338	1HB	LYS	A	27140.867	-4.647	-7.389	1.00	0.00	H
	ATOM	339	2HB	LYS	A	27142.089	-4.491	-8.645	1.00	0.00	H
20	ATOM	340	1HG	LYS	A	27141.031	-7.196	-8.400	1.00	0.00	H
	ATOM	341	2HG	LYS	A	27139.803	-5.993	-8.801	1.00	0.00	H
	ATOM	342	1HD	LYS	A	27140.712	-5.546	-10.838	1.00	0.00	H
	ATOM	343	2HD	LYS	A	27142.362	-5.850	-10.289	1.00	0.00	H
	ATOM	344	1HE	LYS	A	27141.897	-8.262	-10.281	1.00	0.00	H
25	ATOM	345	2HE	LYS	A	27140.265	-7.940	-10.867	1.00	0.00	H
	ATOM	346	1HZ	LYS	A	27142.831	-7.630	-12.284	1.00	0.00	H
	ATOM	347	2HZ	LYS	A	27141.475	-6.749	-12.776	1.00	0.00	H
	ATOM	348	3HZ	LYS	A	27141.431	-8.439	-12.781	1.00	0.00	H
	ATOM	349	N	GLU	A	28144.583	-7.219	-7.294	1.00	0.00	N

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	ATOM	350	CA	GLU A	28145.772	-7.744	-7.955	1.00	0.00	C
	ATOM	351	C	GLU A	28145.696	-9.263	-8.080	1.00	0.00	C
	ATOM	352	O	GLU A	28144.649	-9.864	-7.844	1.00	0.00	O
	ATOM	353	CB	GLU A	28147.030	-7.343	-7.180	1.00	0.00	C
5	ATOM	354	CG	GLU A	28148.126	-6.764	-8.060	1.00	0.00	C
	ATOM	355	CD	GLU A	28148.802	-5.560	-7.433	1.00	0.00	C
	ATOM	356	OE1	GLU A	28149.942	-5.707	-6.944	1.00	0.00	O
	ATOM	357	OE2	GLU A	28148.191	-4.471	-7.431	1.00	0.00	O
	ATOM	358	H	GLU A	28144.312	-7.593	-6.429	1.00	0.00	H
10	ATOM	359	HA	GLU A	28145.817	-7.315	-8.945	1.00	0.00	H
	ATOM	360	1HB	GLU A	28146.763	-6.603	-6.441	1.00	0.00	H
	ATOM	361	2HB	GLU A	28147.424	-8.215	-6.678	1.00	0.00	H
	ATOM	362	1HG	GLU A	28148.871	-7.526	-8.233	1.00	0.00	H
	ATOM	363	2HG	GLU A	28147.693	-6.465	-9.003	1.00	0.00	H
15	ATOM	364	N	ASN A	29146.815	-9.877	-8.453	1.00	0.00	N
	ATOM	365	CA	ASN A	29146.875	-11.325	-8.608	1.00	0.00	C
	ATOM	366	C	ASN A	29146.931	-12.016	-7.247	1.00	0.00	C
	ATOM	367	O	ASN A	29146.068	-12.831	-6.920	1.00	0.00	O
	ATOM	368	CB	ASN A	29148.093	-11.719	-9.448	1.00	0.00	C
20	ATOM	369	CG	ASN A	29147.735	-11.979	-10.898	1.00	0.00	C
	ATOM	370	OD1	ASN A	29147.584	-13.127	-11.316	1.00	0.00	O
	ATOM	371	ND2	ASN A	29147.598	-10.910	-11.674	1.00	0.00	N
	ATOM	372	H	ASN A	29147.619	-9.344	-8.626	1.00	0.00	H
	ATOM	373	HA	ASN A	29145.978	-11.640	-9.121	1.00	0.00	H
25	ATOM	374	1HB	ASN A	29148.819	-10.921	-9.413	1.00	0.00	H
	ATOM	375	2HB	ASN A	29148.531	-12.617	-9.037	1.00	0.00	H
	ATOM	376	1HD2	ASN A	29147.734	-10.027	-11.273	1.00	0.00	H
	ATOM	377	2HD2	ASN A	29147.368	-11.049	-12.616	1.00	0.00	H
	ATOM	378	N	PRO A	30147.953	-11.697	-6.434	1.00	0.00	N

	ATOM	379	CA	PRO A	30148.120	-12.289	-5.105	1.00	0.00	C
	ATOM	380	C	PRO A	30147.205	-11.646	-4.063	1.00	0.00	C
	ATOM	381	O	PRO A	30147.389	-10.485	-3.701	1.00	0.00	O
	ATOM	382	CB	PRO A	30149.583	-11.995	-4.782	1.00	0.00	C
	ATOM	383	CG	PRO A	30149.872	-10.721	-5.497	1.00	0.00	C
	ATOM	384	CD	PRO A	30149.028	-10.735	-6.746	1.00	0.00	C
	ATOM	385	HA	PRO A	30147.959	-13.357	-5.123	1.00	0.00	H
	ATOM	386	1HB	PRO A	30149.705	-11.890	-3.714	1.00	0.00	H
	ATOM	387	2HB	PRO A	30150.205	-12.800	-5.145	1.00	0.00	H
	ATOM	388	1HG	PRO A	30149.602	-9.881	-4.872	1.00	0.00	H
	ATOM	389	2HG	PRO A	30150.920	-10.674	-5.754	1.00	0.00	H
	ATOM	390	1HD	PRO A	30148.621	-9.752	-6.936	1.00	0.00	H
	ATOM	391	2HD	PRO A	30149.612	-11.070	-7.590	1.00	0.00	H
	ATOM	392	N	PRO A	31146.201	-12.393	-3.566	1.00	0.00	N
15	ATOM	393	CA	PRO A	31145.261	-11.880	-2.562	1.00	0.00	C
	ATOM	394	C	PRO A	31145.954	-11.524	-1.252	1.00	0.00	C
	ATOM	395	O	PRO A	31146.396	-12.403	-0.513	1.00	0.00	O
	ATOM	396	CB	PRO A	31144.280	-13.041	-2.347	1.00	0.00	C
	ATOM	397	CG	PRO A	31144.464	-13.934	-3.527	1.00	0.00	C
20	ATOM	398	CD	PRO A	31145.900	-13.784	-3.937	1.00	0.00	C
	ATOM	399	HA	PRO A	31144.725	-11.017	-2.930	1.00	0.00	H
	ATOM	400	1HB	PRO A	31144.523	-13.553	-1.427	1.00	0.00	H
	ATOM	401	2HB	PRO A	31143.272	-12.660	-2.297	1.00	0.00	H
	ATOM	402	1HG	PRO A	31144.257	-14.958	-3.251	1.00	0.00	H
25	ATOM	403	2HG	PRO A	31143.812	-13.622	-4.330	1.00	0.00	H
	ATOM	404	1HD	PRO A	31146.524	-14.474	-3.389	1.00	0.00	H
	ATOM	405	2HD	PRO A	31146.009	-13.933	-5.000	1.00	0.00	H
	ATOM	406	N	PHE A	32146.045	-10.228	-0.969	1.00	0.00	N
	ATOM	407	CA	PHE A	32146.685	-9.757	0.254	1.00	0.00	C

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	ATOM	408	C	PHE A	32145.819	-8.715	0.955	1.00	0.00	C
	ATOM	409	O	PHE A	32144.887	-8.169	0.365	1.00	0.00	O
	ATOM	410	CB	PHE A	32148.062	-9.169	-0.058	1.00	0.00	C
	ATOM	411	CG	PHE A	32148.060	-8.215	-1.219	1.00	0.00	C
5	ATOM	412	CD1	PHE A	32148.759	-8.514	-2.377	1.00	0.00	C
	ATOM	413	CD2	PHE A	32147.362	-7.020	-1.150	1.00	0.00	C
	ATOM	414	CE1	PHE A	32148.759	-7.640	-3.448	1.00	0.00	C
	ATOM	415	CE2	PHE A	32147.359	-6.142	-2.217	1.00	0.00	C
	ATOM	416	CZ	PHE A	32148.059	-6.452	-3.368	1.00	0.00	C
10	ATOM	417	H	PHE A	32145.674	-9.573	-1.596	1.00	0.00	H
	ATOM	418	HA	PHE A	32146.807	-10.605	0.911	1.00	0.00	H
	ATOM	419	1HB	PHE A	32148.421	-8.635	0.809	1.00	0.00	H
	ATOM	420	2HB	PHE A	32148.746	-9.973	-0.287	1.00	0.00	H
	ATOM	421	HD1	PHE A	32149.306	-9.443	-2.442	1.00	0.00	H
15	ATOM	422	HD2	PHE A	32146.815	-6.776	-0.252	1.00	0.00	H
	ATOM	423	HE1	PHE A	32149.308	-7.885	-4.346	1.00	0.00	H
	ATOM	424	HE2	PHE A	32146.811	-5.213	-2.153	1.00	0.00	H
	ATOM	425	HZ	PHE A	32148.059	-5.767	-4.202	1.00	0.00	H
	ATOM	426	N	TYR A	33146.135	-8.443	2.217	1.00	0.00	N
20	ATOM	427	CA	TYR A	33145.387	-7.466	2.999	1.00	0.00	C
	ATOM	428	C	TYR A	33146.331	-6.522	3.736	1.00	0.00	C
	ATOM	429	O	TYR A	33147.344	-6.948	4.290	1.00	0.00	O
	ATOM	430	CB	TYR A	33144.472	-8.176	3.999	1.00	0.00	C
	ATOM	431	CG	TYR A	33143.246	-8.794	3.366	1.00	0.00	C
25	ATOM	432	CD1	TYR A	33142.976	-10.149	3.508	1.00	0.00	C
	ATOM	433	CD2	TYR A	33142.360	-8.023	2.625	1.00	0.00	C
	ATOM	434	CE1	TYR A	33141.857	-10.718	2.931	1.00	0.00	C
	ATOM	435	CE2	TYR A	33141.238	-8.584	2.045	1.00	0.00	C
	ATOM	436	CZ	TYR A	33140.992	-9.931	2.200	1.00	0.00	C



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	ATOM	437	OH	TYR A	33139.875	-10.494	1.624	1.00	0.00	O
	ATOM	438	H	TYR A	33146.890	-8.911	2.633	1.00	0.00	H
	ATOM	439	HA	TYR A	33144.781	-6.890	2.316	1.00	0.00	H
	ATOM	440	1HB	TYR A	33145.026	-8.963	4.486	1.00	0.00	H
5	ATOM	441	2HB	TYR A	33144.141	-7.464	4.740	1.00	0.00	H
	ATOM	442	HD1	TYR A	33143.656	-10.763	4.081	1.00	0.00	H
	ATOM	443	HD2	TYR A	33142.556	-6.968	2.505	1.00	0.00	H
	ATOM	444	HE1	TYR A	33141.663	-11.774	3.053	1.00	0.00	H
	ATOM	445	HE2	TYR A	33140.561	-7.968	1.472	1.00	0.00	H
10	ATOM	446	HH	TYR A	33140.098	-11.360	1.275	1.00	0.00	H
	ATOM	447	N	GLY A	34145.991	-5.237	3.739	1.00	0.00	N
	ATOM	448	CA	GLY A	34146.818	-4.253	4.412	1.00	0.00	C
	ATOM	449	C	GLY A	34146.029	-3.038	4.858	1.00	0.00	C
	ATOM	450	O	GLY A	34144.844	-2.911	4.549	1.00	0.00	O
15	ATOM	451	H	GLY A	34145.172	-4.955	3.281	1.00	0.00	H
	ATOM	452	1HA	GLY A	34147.272	-4.712	5.278	1.00	0.00	H
	ATOM	453	2HA	GLY A	34147.599	-3.933	3.737	1.00	0.00	H
	ATOM	454	N	VAL A	35146.687	-2.143	5.588	1.00	0.00	N
	ATOM	455	CA	VAL A	35146.038	-0.932	6.079	1.00	0.00	C
20	ATOM	456	C	VAL A	35146.696	0.316	5.500	1.00	0.00	C
	ATOM	457	O	VAL A	35147.920	0.388	5.382	1.00	0.00	O
	ATOM	458	CB	VAL A	35146.078	-0.860	7.619	1.00	0.00	C
	ATOM	459	CG1	VAL A	35147.514	-0.810	8.119	1.00	0.00	C
	ATOM	460	CG2	VAL A	35145.288	0.341	8.119	1.00	0.00	C
25	ATOM	461	H	VAL A	35147.629	-2.300	5.802	1.00	0.00	H
	ATOM	462	HA	VAL A	35145.004	-0.959	5.767	1.00	0.00	H
	ATOM	463	HB	VAL A	35145.616	-1.754	8.012	1.00	0.00	H
	ATOM	464	1HG1	VAL A	35147.617	-1.449	8.984	1.00	0.00	H
	ATOM	465	2HG1	VAL A	35147.765	0.205	8.391	1.00	0.00	H

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	ATOM	466	3HG1	VAL	A	35148.179	-1.148	7.339	1.00	0.00	H
	ATOM	467	1HG2	VAL	A	35144.239	0.197	7.903	1.00	0.00	H
	ATOM	468	2HG2	VAL	A	35145.637	1.234	7.622	1.00	0.00	H
	ATOM	469	3HG2	VAL	A	35145.425	0.444	9.185	1.00	0.00	H
5	ATOM	470	N	ILE	A	36145.876	1.300	5.143	1.00	0.00	N
	ATOM	471	CA	ILE	A	36146.379	2.546	4.577	1.00	0.00	C
	ATOM	472	C	ILE	A	36147.308	3.255	5.558	1.00	0.00	C
	ATOM	473	O	ILE	A	36147.020	3.340	6.751	1.00	0.00	O
	ATOM	474	CB	ILE	A	36145.228	3.498	4.194	1.00	0.00	C
10	ATOM	475	CG1	ILE	A	36144.210	2.776	3.308	1.00	0.00	C
	ATOM	476	CG2	ILE	A	36145.772	4.732	3.486	1.00	0.00	C
	ATOM	477	CD1	ILE	A	36143.058	3.654	2.872	1.00	0.00	C
	ATOM	478	H	ILE	A	36144.911	1.184	5.262	1.00	0.00	H
	ATOM	479	HA	ILE	A	36146.934	2.305	3.681	1.00	0.00	H
15	ATOM	480	HB	ILE	A	36144.741	3.820	5.102	1.00	0.00	H
	ATOM	481	1HG1	ILE	A	36144.706	2.416	2.420	1.00	0.00	H
	ATOM	482	2HG1	ILE	A	36143.801	1.936	3.852	1.00	0.00	H
	ATOM	483	1HG2	ILE	A	36145.242	5.607	3.832	1.00	0.00	H
	ATOM	484	2HG2	ILE	A	36145.632	4.626	2.420	1.00	0.00	H
20	ATOM	485	3HG2	ILE	A	36146.824	4.838	3.702	1.00	0.00	H
	ATOM	486	1HD1	ILE	A	36142.131	3.246	3.251	1.00	0.00	H
	ATOM	487	2HD1	ILE	A	36143.021	3.690	1.794	1.00	0.00	H
	ATOM	488	3HD1	ILE	A	36143.197	4.651	3.263	1.00	0.00	H
	ATOM	489	N	ARG	A	37148.425	3.761	5.045	1.00	0.00	N
25	ATOM	490	CA	ARG	A	37149.398	4.463	5.876	1.00	0.00	C
	ATOM	491	C	ARG	A	37149.620	5.885	5.372	1.00	0.00	C
	ATOM	492	O	ARG	A	37149.301	6.854	6.060	1.00	0.00	O
	ATOM	493	CB	ARG	A	37150.725	3.703	5.895	1.00	0.00	C
	ATOM	494	CG	ARG	A	37150.572	2.216	6.176	1.00	0.00	C

	ATOM	495	CD	ARG A	37150.497	1.937	7.668	1.00	0.00	C
	ATOM	496	NE	ARG A	37149.266	2.455	8.261	1.00	0.00	N
	ATOM	497	CZ	ARG A	37149.103	2.662	9.566	1.00	0.00	C
	ATOM	498	NH1	ARG A	37150.087	2.396	10.417	1.00	0.00	N
5	ATOM	499	NH2	ARG A	37147.951	3.135	10.023	1.00	0.00	N
	ATOM	500	H	ARG A	37148.601	3.660	4.086	1.00	0.00	H
	ATOM	501	HA	ARG A	37149.005	4.507	6.880	1.00	0.00	H
	ATOM	502	1HB	ARG A	37151.206	3.817	4.934	1.00	0.00	H
	ATOM	503	2HB	ARG A	37151.359	4.128	6.658	1.00	0.00	H
10	ATOM	504	1HG	ARG A	37149.665	1.864	5.709	1.00	0.00	H
	ATOM	505	2HG	ARG A	37151.421	1.692	5.762	1.00	0.00	H
	ATOM	506	1HD	ARG A	37150.539	0.870	7.824	1.00	0.00	H
	ATOM	507	2HD	ARG A	37151.343	2.404	8.151	1.00	0.00	H
	ATOM	508	HE	ARG A	37148.523	2.659	7.656	1.00	0.00	H
15	ATOM	509	1HH1	ARG A	37150.957	2.038	10.079	1.00	0.00	H
	ATOM	510	2HH1	ARG A	37149.958	2.554	11.395	1.00	0.00	H
	ATOM	511	1HH2	ARG A	37147.206	3.338	9.387	1.00	0.00	H
	ATOM	512	2HH2	ARG A	37147.828	3.291	11.003	1.00	0.00	H
	ATOM	513	N	TRP A	38150.168	6.003	4.168	1.00	0.00	N
20	ATOM	514	CA	TRP A	38150.433	7.308	3.573	1.00	0.00	C
	ATOM	515	C	TRP A	38149.677	7.472	2.256	1.00	0.00	C
	ATOM	516	O	TRP A	38149.724	6.600	1.389	1.00	0.00	O
	ATOM	517	CB	TRP A	38151.937	7.494	3.343	1.00	0.00	C
	ATOM	518	CG	TRP A	38152.271	8.679	2.486	1.00	0.00	C
25	ATOM	519	CD1	TRP A	38152.549	9.947	2.909	1.00	0.00	C
	ATOM	520	CD2	TRP A	38152.356	8.706	1.056	1.00	0.00	C
	ATOM	521	NE1	TRP A	38152.802	10.760	1.830	1.00	0.00	N
	ATOM	522	CE2	TRP A	38152.689	10.021	0.681	1.00	0.00	C
	ATOM	523	CE3	TRP A	38152.183	7.745	0.057	1.00	0.00	C

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	ATOM	524	CZ2	TRP	A	38152.852	10.398	-0.650	1.00	0.00	C
	ATOM	525	CZ3	TRP	A	38152.345	8.119	-1.263	1.00	0.00	C
	ATOM	526	CH2	TRP	A	38152.676	9.435	-1.607	1.00	0.00	C
	ATOM	527	H	TRP	A	38150.401	5.193	3.666	1.00	0.00	H
5	ATOM	528	HA	TRP	A	38150.089	8.062	4.266	1.00	0.00	H
	ATOM	529	1HB	TRP	A	38152.427	7.624	4.296	1.00	0.00	H
	ATOM	530	2HB	TRP	A	38152.331	6.611	2.860	1.00	0.00	H
	ATOM	531	HD1	TRP	A	38152.564	10.253	3.945	1.00	0.00	H
	ATOM	532	HE1	TRP	A	38153.026	11.713	1.876	1.00	0.00	H
10	ATOM	533	HE3	TRP	A	38151.927	6.725	0.301	1.00	0.00	H
	ATOM	534	HZ2	TRP	A	38153.105	11.409	-0.931	1.00	0.00	H
	ATOM	535	HZ3	TRP	A	38152.214	7.389	-2.050	1.00	0.00	H
	ATOM	536	HH2	TRP	A	38152.793	9.683	-2.653	1.00	0.00	H
	ATOM	537	N	ILE	A	39148.993	8.601	2.114	1.00	0.00	N
15	ATOM	538	CA	ILE	A	39148.236	8.890	0.902	1.00	0.00	C
	ATOM	539	C	ILE	A	39148.716	10.190	0.268	1.00	0.00	C
	ATOM	540	O	ILE	A	39148.434	11.278	0.771	1.00	0.00	O
	ATOM	541	CB	ILE	A	39146.726	8.999	1.193	1.00	0.00	C
	ATOM	542	CG1	ILE	A	39146.253	7.793	2.006	1.00	0.00	C
20	ATOM	543	CG2	ILE	A	39145.943	9.110	-0.106	1.00	0.00	C
	ATOM	544	CD1	ILE	A	39144.821	7.908	2.482	1.00	0.00	C
	ATOM	545	H	ILE	A	39149.002	9.259	2.839	1.00	0.00	H
	ATOM	546	HA	ILE	A	39148.392	8.079	0.207	1.00	0.00	H
	ATOM	547	HB	ILE	A	39146.556	9.898	1.765	1.00	0.00	H
25	ATOM	548	1HG1	ILE	A	39146.329	6.904	1.398	1.00	0.00	H
	ATOM	549	2HG1	ILE	A	39146.885	7.682	2.876	1.00	0.00	H
	ATOM	550	1HG2	ILE	A	39146.511	8.664	-0.909	1.00	0.00	H
	ATOM	551	2HG2	ILE	A	39145.761	10.151	-0.328	1.00	0.00	H
	ATOM	552	3HG2	ILE	A	39145.000	8.593	-0.003	1.00	0.00	H

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	ATOM	553	1HD1	ILE A	39144.804	8.363	3.462	1.00	0.00	H
	ATOM	554	2HD1	ILE A	39144.379	6.925	2.534	1.00	0.00	H
	ATOM	555	3HD1	ILE A	39144.261	8.520	1.790	1.00	0.00	H
	ATOM	556	N	GLY A	40149.446	10.073	-0.836	1.00	0.00	N
5	ATOM	557	CA	GLY A	40149.956	11.250	-1.512	1.00	0.00	C
	ATOM	558	C	GLY A	40150.450	10.954	-2.913	1.00	0.00	C
	ATOM	559	O	GLY A	40150.200	9.877	-3.455	1.00	0.00	O
	ATOM	560	H	GLY A	40149.644	9.181	-1.192	1.00	0.00	H
	ATOM	561	1HA	GLY A	40149.172	11.988	-1.567	1.00	0.00	H
10	ATOM	562	2HA	GLY A	40150.774	11.655	-0.934	1.00	0.00	H
	ATOM	563	N	GLN A	41151.151	11.918	-3.503	1.00	0.00	N
	ATOM	564	CA	GLN A	41151.682	11.767	-4.850	1.00	0.00	C
	ATOM	565	C	GLN A	41153.178	12.077	-4.881	1.00	0.00	C
	ATOM	566	O	GLN A	41153.587	13.211	-4.627	1.00	0.00	O
15	ATOM	567	CB	GLN A	41150.936	12.694	-5.810	1.00	0.00	C
	ATOM	568	CG	GLN A	41149.424	12.612	-5.681	1.00	0.00	C
	ATOM	569	CD	GLN A	41148.756	13.969	-5.779	1.00	0.00	C
	ATOM	570	OE1	GLN A	41148.808	14.769	-4.846	1.00	0.00	O
	ATOM	571	NE2	GLN A	41148.124	14.235	-6.916	1.00	0.00	N
20	ATOM	572	H	GLN A	41151.313	12.753	-3.019	1.00	0.00	H
	ATOM	573	HA	GLN A	41151.527	10.744	-5.158	1.00	0.00	H
	ATOM	574	1HB	GLN A	41151.236	13.711	-5.614	1.00	0.00	H
	ATOM	575	2HB	GLN A	41151.205	12.436	-6.822	1.00	0.00	H
	ATOM	576	1HG	GLN A	41149.040	11.982	-6.470	1.00	0.00	H
25	ATOM	577	2HG	GLN A	41149.179	12.175	-4.724	1.00	0.00	H
	ATOM	578	1HE2	GLN A	41148.124	13.549	-7.616	1.00	0.00	H
	ATOM	579	2HE2	GLN A	41147.685	15.106	-7.009	1.00	0.00	H
	ATOM	580	N	PRO A	42154.020	11.075	-5.191	1.00	0.00	N
	ATOM	581	CA	PRO A	42155.475	11.257	-5.248	1.00	0.00	C

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	ATOM	582	C	PRO A	42155.883	12.348	-6.233	1.00	0.00	C
	ATOM	583	O	PRO A	42155.116	12.706	-7.128	1.00	0.00	O
	ATOM	584	CB	PRO A	42155.994	9.893	-5.715	1.00	0.00	C
	ATOM	585	CG	PRO A	42154.914	8.931	-5.358	1.00	0.00	C
5	ATOM	586	CD	PRO A	42153.628	9.690	-5.508	1.00	0.00	C
	ATOM	587	HA	PRO A	42155.882	11.485	-4.274	1.00	0.00	H
	ATOM	588	1HB	PRO A	42156.167	9.916	-6.781	1.00	0.00	H
	ATOM	589	2HB	PRO A	42156.914	9.659	-5.200	1.00	0.00	H
	ATOM	590	1HG	PRO A	42154.933	8.088	-6.033	1.00	0.00	H
10	ATOM	591	2HG	PRO A	42155.037	8.600	-4.338	1.00	0.00	H
	ATOM	592	1HD	PRO A	42153.259	9.615	-6.520	1.00	0.00	H
	ATOM	593	2HD	PRO A	42152.890	9.327	-4.806	1.00	0.00	H
	ATOM	594	N	PRO A	43157.103	12.891	-6.082	1.00	0.00	N
	ATOM	595	CA	PRO A	43157.611	13.946	-6.963	1.00	0.00	C
15	ATOM	596	C	PRO A	43157.953	13.424	-8.354	1.00	0.00	C
	ATOM	597	O	PRO A	43159.092	13.042	-8.621	1.00	0.00	O
	ATOM	598	CB	PRO A	43158.874	14.427	-6.250	1.00	0.00	C
	ATOM	599	CG	PRO A	43159.327	13.252	-5.454	1.00	0.00	C
	ATOM	600	CD	PRO A	43158.079	12.520	-5.041	1.00	0.00	C
20	ATOM	601	HA	PRO A	43156.908	14.763	-7.049	1.00	0.00	H
	ATOM	602	1HB	PRO A	43159.613	14.718	-6.982	1.00	0.00	H
	ATOM	603	2HB	PRO A	43158.636	15.266	-5.615	1.00	0.00	H
	ATOM	604	1HG	PRO A	43159.951	12.615	-6.063	1.00	0.00	H
	ATOM	605	2HG	PRO A	43159.871	13.587	-4.583	1.00	0.00	H
25	ATOM	606	1HD	PRO A	43158.252	11.454	-5.037	1.00	0.00	H
	ATOM	607	2HD	PRO A	43157.751	12.855	-4.068	1.00	0.00	H
	ATOM	608	N	GLY A	44156.960	13.410	-9.236	1.00	0.00	N
	ATOM	609	CA	GLY A	44157.179	12.932	-10.588	1.00	0.00	C
	ATOM	610	C	GLY A	44155.901	12.471	-11.257	1.00	0.00	C

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	ATOM	611	O	GLY A	44155.595	12.885	-12.375	1.00	0.00	O
	ATOM	612	H	GLY A	44156.072	13.725	-8.968	1.00	0.00	H
	ATOM	613	1HA	GLY A	44157.612	13.728	-11.173	1.00	0.00	H
	ATOM	614	2HA	GLY A	44157.875	12.105	-10.556	1.00	0.00	H
5	ATOM	615	N	LEU A	45155.154	11.611	-10.574	1.00	0.00	N
	ATOM	616	CA	LEU A	45153.902	11.095	-11.112	1.00	0.00	C
	ATOM	617	C	LEU A	45152.735	11.431	-10.190	1.00	0.00	C
	ATOM	618	O	LEU A	45152.647	10.916	-9.076	1.00	0.00	O
	ATOM	619	CB	LEU A	45153.993	9.580	-11.306	1.00	0.00	C
10	ATOM	620	CG	LEU A	45154.530	8.806	-10.099	1.00	0.00	C
	ATOM	621	CD1	LEU A	45154.083	7.352	-10.154	1.00	0.00	C
	ATOM	622	CD2	LEU A	45156.049	8.900	-10.039	1.00	0.00	C
	ATOM	623	H	LEU A	45155.450	11.319	-9.685	1.00	0.00	H
	ATOM	624	HA	LEU A	45153.734	11.562	-12.070	1.00	0.00	H
15	ATOM	625	1HB	LEU A	45153.006	9.208	-11.537	1.00	0.00	H
	ATOM	626	2HB	LEU A	45154.640	9.384	-12.147	1.00	0.00	H
	ATOM	627	HG	LEU A	45154.131	9.243	-9.196	1.00	0.00	H
	ATOM	628	1HD1	LEU A	45153.399	7.155	-9.341	1.00	0.00	H
	ATOM	629	2HD1	LEU A	45154.943	6.705	-10.064	1.00	0.00	H
20	ATOM	630	3HD1	LEU A	45153.587	7.161	-11.094	1.00	0.00	H
	ATOM	631	1HD2	LEU A	45156.481	7.939	-10.273	1.00	0.00	H
	ATOM	632	2HD2	LEU A	45156.351	9.197	-9.044	1.00	0.00	H
	ATOM	633	3HD2	LEU A	45156.395	9.634	-10.752	1.00	0.00	H
	ATOM	634	N	ASN A	46151.839	12.293	-10.660	1.00	0.00	N
25	ATOM	635	CA	ASN A	46150.682	12.685	-9.866	1.00	0.00	C
	ATOM	636	C	ASN A	46149.666	11.550	-9.807	1.00	0.00	C
	ATOM	637	O	ASN A	46148.992	11.253	-10.792	1.00	0.00	O
	ATOM	638	CB	ASN A	46150.034	13.937	-10.460	1.00	0.00	C
	ATOM	639	CG	ASN A	46149.364	14.797	-9.406	1.00	0.00	C

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	ATOM	640	OD1	ASN	A	46149.991	15.199	-8.426	1.00	0.00	O
	ATOM	641	ND2	ASN	A	46148.083	15.083	-9.604	1.00	0.00	N
	ATOM	642	H	ASN	A	46151.958	12.670	-11.556	1.00	0.00	H
	ATOM	643	HA	ASN	A	46151.023	12.904	-8.865	1.00	0.00	H
5	ATOM	644	1HB	ASN	A	46150.792	14.529	-10.950	1.00	0.00	H
	ATOM	645	2HB	ASN	A	46149.290	13.640	-11.184	1.00	0.00	H
	ATOM	646	1HD2	ASN	A	46147.648	14.729	-10.408	1.00	0.00	H
	ATOM	647	2HD2	ASN	A	46147.625	15.639	-8.939	1.00	0.00	H
	ATOM	648	N	GLU	A	47149.563	10.920	-8.642	1.00	0.00	N
10	ATOM	649	CA	GLU	A	47148.631	9.817	-8.447	1.00	0.00	C
	ATOM	650	C	GLU	A	47148.480	9.494	-6.965	1.00	0.00	C
	ATOM	651	O	GLU	A	47149.455	9.161	-6.291	1.00	0.00	O
	ATOM	652	CB	GLU	A	47149.104	8.574	-9.206	1.00	0.00	C
	ATOM	653	CG	GLU	A	47150.611	8.372	-9.178	1.00	0.00	C
15	ATOM	654	CD	GLU	A	47151.090	7.413	-10.250	1.00	0.00	C
	ATOM	655	OE1	GLU	A	47151.384	6.246	-9.915	1.00	0.00	O
	ATOM	656	OE2	GLU	A	47151.171	7.829	-11.425	1.00	0.00	O
	ATOM	657	H	GLU	A	47150.130	11.205	-7.896	1.00	0.00	H
	ATOM	658	HA	GLU	A	47147.671	10.122	-8.836	1.00	0.00	H
20	ATOM	659	1HB	GLU	A	47148.638	7.703	-8.771	1.00	0.00	H
	ATOM	660	2HB	GLU	A	47148.793	8.658	-10.237	1.00	0.00	H
	ATOM	661	1HG	GLU	A	47151.093	9.326	-9.329	1.00	0.00	H
	ATOM	662	2HG	GLU	A	47150.892	7.978	-8.212	1.00	0.00	H
	ATOM	663	N	VAL	A	48147.255	9.585	-6.461	1.00	0.00	N
25	ATOM	664	CA	VAL	A	48146.988	9.294	-5.059	1.00	0.00	C
	ATOM	665	C	VAL	A	48147.302	7.836	-4.743	1.00	0.00	C
	ATOM	666	O	VAL	A	48146.505	6.943	-5.029	1.00	0.00	O
	ATOM	667	CB	VAL	A	48145.522	9.585	-4.689	1.00	0.00	C
	ATOM	668	CG1	VAL	A	48145.318	9.474	-3.186	1.00	0.00	C



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	ATOM	669	CG2	VAL A	48145.108	10.959	-5.192	1.00	0.00	C
	ATOM	670	H	VAL A	48146.514	9.850	-7.045	1.00	0.00	H
	ATOM	671	HA	VAL A	48147.625	9.928	-4.458	1.00	0.00	H
	ATOM	672	HB	VAL A	48144.897	8.846	-5.169	1.00	0.00	H
5	ATOM	673	1HG1	VAL A	48145.394	8.440	-2.887	1.00	0.00	H
	ATOM	674	2HG1	VAL A	48144.339	9.853	-2.928	1.00	0.00	H
	ATOM	675	3HG1	VAL A	48146.073	10.054	-2.677	1.00	0.00	H
	ATOM	676	1HG2	VAL A	48144.413	11.403	-4.495	1.00	0.00	H
	ATOM	677	2HG2	VAL A	48144.636	10.861	-6.158	1.00	0.00	H
10	ATOM	678	3HG2	VAL A	48145.981	11.589	-5.280	1.00	0.00	H
	ATOM	679	N	LEU A	49148.472	7.601	-4.156	1.00	0.00	N
	ATOM	680	CA	LEU A	49148.892	6.250	-3.807	1.00	0.00	C
	ATOM	681	C	LEU A	49148.847	6.042	-2.299	1.00	0.00	C
	ATOM	682	O	LEU A	49149.562	6.707	-1.549	1.00	0.00	O
15	ATOM	683	CB	LEU A	49150.306	5.982	-4.327	1.00	0.00	C
	ATOM	684	CG	LEU A	49150.455	6.034	-5.849	1.00	0.00	C
	ATOM	685	CD1	LEU A	49151.876	6.420	-6.232	1.00	0.00	C
	ATOM	686	CD2	LEU A	49150.080	4.696	-6.467	1.00	0.00	C
	ATOM	687	H	LEU A	49149.066	8.354	-3.954	1.00	0.00	H
20	ATOM	688	HA	LEU A	49148.208	5.558	-4.274	1.00	0.00	H
	ATOM	689	1HB	LEU A	49150.971	6.715	-3.896	1.00	0.00	H
	ATOM	690	2HB	LEU A	49150.610	5.002	-3.992	1.00	0.00	H
	ATOM	691	HG	LEU A	49149.787	6.786	-6.245	1.00	0.00	H
	ATOM	692	1HD1	LEU A	49152.135	7.354	-5.757	1.00	0.00	H
25	ATOM	693	2HD1	LEU A	49151.942	6.530	-7.304	1.00	0.00	H
	ATOM	694	3HD1	LEU A	49152.559	5.649	-5.906	1.00	0.00	H
	ATOM	695	1HD2	LEU A	49149.173	4.330	-6.007	1.00	0.00	H
	ATOM	696	2HD2	LEU A	49150.878	3.987	-6.303	1.00	0.00	H
	ATOM	697	3HD2	LEU A	49149.920	4.821	-7.527	1.00	0.00	H

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	ATOM	698	N	ALA A	50148.001	5.118	-1.861	1.00	0.00	N
	ATOM	699	CA	ALA A	50147.865	4.827	-0.441	1.00	0.00	C
	ATOM	700	C	ALA A	50148.802	3.700	-0.019	1.00	0.00	C
	ATOM	701	O	ALA A	50148.655	2.561	-0.462	1.00	0.00	O
5	ATOM	702	CB	ALA A	50146.423	4.471	-0.111	1.00	0.00	C
	ATOM	703	H	ALA A	50147.456	4.621	-2.506	1.00	0.00	H
	ATOM	704	HA	ALA A	50148.124	5.723	0.106	1.00	0.00	H
	ATOM	705	1HB	ALA A	50146.405	3.738	0.682	1.00	0.00	H
	ATOM	706	2HB	ALA A	50145.943	4.063	-0.988	1.00	0.00	H
10	ATOM	707	3HB	ALA A	50145.896	5.358	0.208	1.00	0.00	H
	ATOM	708	N	GLY A	51149.764	4.024	0.838	1.00	0.00	N
	ATOM	709	CA	GLY A	51150.710	3.029	1.304	1.00	0.00	C
	ATOM	710	C	GLY A	51150.071	2.011	2.229	1.00	0.00	C
	ATOM	711	O	GLY A	51149.790	2.310	3.390	1.00	0.00	O
15	ATOM	712	H	GLY A	51149.832	4.950	1.156	1.00	0.00	H
	ATOM	713	1HA	GLY A	51151.122	2.512	0.450	1.00	0.00	H
	ATOM	714	2HA	GLY A	51151.510	3.526	1.830	1.00	0.00	H
	ATOM	715	N	LEU A	52149.841	0.808	1.715	1.00	0.00	N
	ATOM	716	CA	LEU A	52149.231	-0.256	2.503	1.00	0.00	C
20	ATOM	717	C	LEU A	52150.296	-1.119	3.171	1.00	0.00	C
	ATOM	718	O	LEU A	52151.352	-1.377	2.594	1.00	0.00	O
	ATOM	719	CB	LEU A	52148.333	-1.124	1.619	1.00	0.00	C
	ATOM	720	CG	LEU A	52147.158	-0.390	0.972	1.00	0.00	C
	ATOM	721	CD1	LEU A	52146.581	-1.211	-0.171	1.00	0.00	C
25	ATOM	722	CD2	LEU A	52146.085	-0.087	2.006	1.00	0.00	C
	ATOM	723	H	LEU A	52150.088	0.631	0.782	1.00	0.00	H
	ATOM	724	HA	LEU A	52148.627	0.206	3.271	1.00	0.00	H
	ATOM	725	1HB	LEU A	52148.942	-1.551	0.835	1.00	0.00	H
	ATOM	726	2HB	LEU A	52147.938	-1.928	2.223	1.00	0.00	H

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	ATOM	727	HG	LEU A	52147.507	0.548	0.565	1.00	0.00	H
	ATOM	728	1HD1	LEU A	52145.819	-1.874	0.211	1.00	0.00	H
	ATOM	729	2HD1	LEU A	52147.367	-1.793	-0.630	1.00	0.00	H
	ATOM	730	3HD1	LEU A	52146.147	-0.550	-0.906	1.00	0.00	H
5	ATOM	731	1HD2	LEU A	52145.114	-0.103	1.534	1.00	0.00	H
	ATOM	732	2HD2	LEU A	52146.261	0.891	2.432	1.00	0.00	H
	ATOM	733	3HD2	LEU A	52146.118	-0.831	2.789	1.00	0.00	H
	ATOM	734	N	GLU A	53150.010	-1.565	4.390	1.00	0.00	N
	ATOM	735	CA	GLU A	53150.943	-2.400	5.137	1.00	0.00	C
10	ATOM	736	C	GLU A	53150.426	-3.831	5.244	1.00	0.00	C
	ATOM	737	O	GLU A	53149.452	-4.099	5.948	1.00	0.00	O
	ATOM	738	CB	GLU A	53151.171	-1.823	6.535	1.00	0.00	C
	ATOM	739	CG	GLU A	53152.170	-2.613	7.365	1.00	0.00	C
	ATOM	740	CD	GLU A	53151.776	-2.697	8.827	1.00	0.00	C
15	ATOM	741	OE1	GLU A	53152.274	-3.607	9.524	1.00	0.00	O
	ATOM	742	OE2	GLU A	53150.970	-1.856	9.275	1.00	0.00	O
	ATOM	743	H	GLU A	53149.151	-1.326	4.797	1.00	0.00	H
	ATOM	744	HA	GLU A	53151.882	-2.409	4.604	1.00	0.00	H
	ATOM	745	1HB	GLU A	53151.536	-0.811	6.440	1.00	0.00	H
20	ATOM	746	2HB	GLU A	53150.229	-1.809	7.064	1.00	0.00	H
	ATOM	747	1HG	GLU A	53152.236	-3.615	6.968	1.00	0.00	H
	ATOM	748	2HG	GLU A	53153.135	-2.134	7.295	1.00	0.00	H
	ATOM	749	N	LEU A	54151.083	-4.747	4.540	1.00	0.00	N
	ATOM	750	CA	LEU A	54150.690	-6.152	4.556	1.00	0.00	C
25	ATOM	751	C	LEU A	54150.936	-6.770	5.929	1.00	0.00	C
	ATOM	752	O	LEU A	54151.987	-6.563	6.535	1.00	0.00	O
	ATOM	753	CB	LEU A	54151.460	-6.929	3.488	1.00	0.00	C
	ATOM	754	CG	LEU A	54151.434	-6.309	2.090	1.00	0.00	C
	ATOM	755	CD1	LEU A	54152.561	-6.869	1.236	1.00	0.00	C

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	ATOM	756	CD2	LEU	A	54150.087	-6.552	1.425	1.00	0.00	C
	ATOM	757	H	LEU	A	54151.852	-4.472	3.997	1.00	0.00	H
	ATOM	758	HA	LEU	A	54149.635	-6.202	4.335	1.00	0.00	H
	ATOM	759	1HB	LEU	A	54152.490	-7.011	3.805	1.00	0.00	H
5	ATOM	760	2HB	LEU	A	54151.042	-7.922	3.424	1.00	0.00	H
	ATOM	761	HG	LEU	A	54151.578	-5.241	2.175	1.00	0.00	H
	ATOM	762	1HD1	LEU	A	54153.480	-6.863	1.804	1.00	0.00	H
	ATOM	763	2HD1	LEU	A	54152.680	-6.260	0.352	1.00	0.00	H
	ATOM	764	3HD1	LEU	A	54152.324	-7.882	0.947	1.00	0.00	H
10	ATOM	765	1HD2	LEU	A	54149.633	-7.438	1.847	1.00	0.00	H
	ATOM	766	2HD2	LEU	A	54150.229	-6.692	0.364	1.00	0.00	H
	ATOM	767	3HD2	LEU	A	54149.443	-5.702	1.595	1.00	0.00	H
	ATOM	768	N	GLU	A	55149.958	-7.528	6.413	1.00	0.00	N
	ATOM	769	CA	GLU	A	55150.067	-8.176	7.715	1.00	0.00	C
15	ATOM	770	C	GLU	A	55151.139	-9.261	7.696	1.00	0.00	C
	ATOM	771	O	GLU	A	55151.836	-9.478	8.686	1.00	0.00	O
	ATOM	772	CB	GLU	A	55148.722	-8.779	8.123	1.00	0.00	C
	ATOM	773	CG	GLU	A	55147.657	-7.739	8.430	1.00	0.00	C
	ATOM	774	CD	GLU	A	55146.711	-7.512	7.268	1.00	0.00	C
20	ATOM	775	OE1	GLU	A	55146.763	-6.420	6.663	1.00	0.00	O
	ATOM	776	OE2	GLU	A	55145.916	-8.426	6.962	1.00	0.00	O
	ATOM	777	H	GLU	A	55149.144	-7.655	5.884	1.00	0.00	H
	ATOM	778	HA	GLU	A	55150.347	-7.424	8.437	1.00	0.00	H
	ATOM	779	1HB	GLU	A	55148.361	-9.404	7.319	1.00	0.00	H
25	ATOM	780	2HB	GLU	A	55148.864	-9.388	9.003	1.00	0.00	H
	ATOM	781	1HG	GLU	A	55147.083	-8.069	9.283	1.00	0.00	H
	ATOM	782	2HG	GLU	A	55148.143	-6.803	8.667	1.00	0.00	H
	ATOM	783	N	ASP	A	56151.263	-9.943	6.561	1.00	0.00	N
	ATOM	784	CA	ASP	A	56152.251	-11.006	6.412	1.00	0.00	C

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	ATOM	785	C	ASP	A	56153.446	-10.528	5.596	1.00	0.00	C
	ATOM	786	O	ASP	A	56153.285	-9.897	4.551	1.00	0.00	O
	ATOM	787	CB	ASP	A	56151.617	-12.228	5.745	1.00	0.00	C
	ATOM	788	CG	ASP	A	56151.036	-13.201	6.753	1.00	0.00	C
5	ATOM	789	OD1	ASP	A	56149.897	-13.665	6.541	1.00	0.00	O
	ATOM	790	OD2	ASP	A	56151.722	-13.498	7.754	1.00	0.00	O
	ATOM	791	H	ASP	A	56150.678	-9.724	5.806	1.00	0.00	H
	ATOM	792	HA	ASP	A	56152.591	-11.281	7.399	1.00	0.00	H
	ATOM	793	1HB	ASP	A	56150.825	-11.902	5.089	1.00	0.00	H
10	ATOM	794	2HB	ASP	A	56152.370	-12.744	5.167	1.00	0.00	H
	ATOM	795	N	GLU	A	57154.646	-10.834	6.078	1.00	0.00	N
	ATOM	796	CA	GLU	A	57155.870	-10.436	5.392	1.00	0.00	C
	ATOM	797	C	GLU	A	57155.928	-11.034	3.991	1.00	0.00	C
	ATOM	798	O	GLU	A	57156.352	-12.176	3.810	1.00	0.00	O
15	ATOM	799	CB	GLU	A	57157.095	-10.872	6.197	1.00	0.00	C
	ATOM	800	CG	GLU	A	57157.104	-10.349	7.624	1.00	0.00	C
	ATOM	801	CD	GLU	A	57156.564	-11.358	8.618	1.00	0.00	C
	ATOM	802	OE1	GLU	A	57156.945	-11.284	9.805	1.00	0.00	O
	ATOM	803	OE2	GLU	A	57155.759	-12.221	8.210	1.00	0.00	O
20	ATOM	804	H	GLU	A	57154.710	-11.339	6.915	1.00	0.00	H
	ATOM	805	HA	GLU	A	57155.869	-9.359	5.311	1.00	0.00	H
	ATOM	806	1HB	GLU	A	57157.123	-11.951	6.233	1.00	0.00	H
	ATOM	807	2HB	GLU	A	57157.985	-10.514	5.700	1.00	0.00	H
	ATOM	808	1HG	GLU	A	57158.120	-10.105	7.898	1.00	0.00	H
25	ATOM	809	2HG	GLU	A	57156.496	-9.458	7.671	1.00	0.00	H
	ATOM	810	N	CYS	A	58155.499	-10.256	3.003	1.00	0.00	N
	ATOM	811	CA	CYS	A	58155.502	-10.709	1.617	1.00	0.00	C
	ATOM	812	C	CYS	A	58156.853	-10.442	0.960	1.00	0.00	C
	ATOM	813	O	CYS	A	58157.328	-9.307	0.933	1.00	0.00	O

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	ATOM	814	CB	CYS A	58154.392	-10.013	0.828	1.00	0.00	C
	ATOM	815	SG	CYS A	58154.271	-10.539	-0.897	1.00	0.00	S
	ATOM	816	H	CYS A	58155.173	-9.355	3.210	1.00	0.00	H
	ATOM	817	HA	CYS A	58155.319	-11.773	1.616	1.00	0.00	H
5	ATOM	818	1HB	CYS A	58153.443	-10.217	1.300	1.00	0.00	H
	ATOM	819	2HB	CYS A	58154.570	-8.947	0.835	1.00	0.00	H
	ATOM	820	HG	CYS A	58154.021	-11.467	-0.907	1.00	0.00	H
	ATOM	821	N	ALA A	59157.466	-11.496	0.431	1.00	0.00	N
	ATOM	822	CA	ALA A	59158.762	-11.375	-0.226	1.00	0.00	C
10	ATOM	823	C	ALA A	59158.686	-10.433	-1.423	1.00	0.00	C
	ATOM	824	O	ALA A	59157.969	-10.698	-2.389	1.00	0.00	O
	ATOM	825	CB	ALA A	59159.262	-12.744	-0.661	1.00	0.00	C
	ATOM	826	H	ALA A	59157.037	-12.376	0.483	1.00	0.00	H
	ATOM	827	HA	ALA A	59159.463	-10.974	0.491	1.00	0.00	H
15	ATOM	828	1HB	ALA A	59160.333	-12.710	-0.800	1.00	0.00	H
	ATOM	829	2HB	ALA A	59158.788	-13.021	-1.592	1.00	0.00	H
	ATOM	830	3HB	ALA A	59159.020	-13.474	0.097	1.00	0.00	H
	ATOM	831	N	GLY A	60159.428	-9.334	-1.352	1.00	0.00	N
	ATOM	832	CA	GLY A	60159.430	-8.369	-2.437	1.00	0.00	C
20	ATOM	833	C	GLY A	60158.687	-7.096	-2.082	1.00	0.00	C
	ATOM	834	O	GLY A	60157.935	-6.561	-2.896	1.00	0.00	O
	ATOM	835	H	GLY A	60159.979	-9.176	-0.558	1.00	0.00	H
	ATOM	836	1HA	GLY A	60160.452	-8.119	-2.680	1.00	0.00	H
	ATOM	837	2HA	GLY A	60158.963	-8.816	-3.302	1.00	0.00	H
25	ATOM	838	N	CYS A	61158.897	-6.610	-0.863	1.00	0.00	N
	ATOM	839	CA	CYS A	61158.240	-5.392	-0.402	1.00	0.00	C
	ATOM	840	C	CYS A	61159.222	-4.494	0.343	1.00	0.00	C
	ATOM	841	O	CYS A	61160.342	-4.903	0.652	1.00	0.00	O
	ATOM	842	CB	CYS A	61157.058	-5.738	0.505	1.00	0.00	C

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	ATOM	843	SG	CYS A	61155.845	-6.842	-0.254	1.00	0.00	S
	ATOM	844	H	CYS A	61159.508	-7.081	-0.258	1.00	0.00	H
	ATOM	845	HA	CYS A	61157.875	-4.863	-1.270	1.00	0.00	H
	ATOM	846	1HB	CYS A	61157.427	-6.219	1.397	1.00	0.00	H
5	ATOM	847	2HB	CYS A	61156.547	-4.826	0.779	1.00	0.00	H
	ATOM	848	HG	CYS A	61154.969	-6.511	-0.042	1.00	0.00	H
	ATOM	849	N	THR A	62158.796	-3.268	0.629	1.00	0.00	N
	ATOM	850	CA	THR A	62159.637	-2.311	1.338	1.00	0.00	C
	ATOM	851	C	THR A	62159.197	-2.171	2.790	1.00	0.00	C
10	ATOM	852	O	THR A	62158.253	-2.829	3.230	1.00	0.00	O
	ATOM	853	CB	THR A	62159.591	-0.949	0.645	1.00	0.00	C
	ATOM	854	OG1	THR A	62158.350	-0.308	0.879	1.00	0.00	O
	ATOM	855	CG2	THR A	62159.791	-1.031	-0.853	1.00	0.00	C
	ATOM	856	H	THR A	62157.894	-3.000	0.357	1.00	0.00	H
15	ATOM	857	HA	THR A	62160.651	-2.682	1.316	1.00	0.00	H
	ATOM	858	HB	THR A	62160.376	-0.325	1.050	1.00	0.00	H
	ATOM	859	HG1	THR A	62157.639	-0.850	0.529	1.00	0.00	H
	ATOM	860	1HG2	THR A	62158.928	-1.498	-1.305	1.00	0.00	H
	ATOM	861	2HG2	THR A	62160.671	-1.618	-1.067	1.00	0.00	H
20	ATOM	862	3HG2	THR A	62159.913	-0.036	-1.254	1.00	0.00	H
	ATOM	863	N	ASP A	63159.886	-1.310	3.533	1.00	0.00	N
	ATOM	864	CA	ASP A	63159.564	-1.083	4.937	1.00	0.00	C
	ATOM	865	C	ASP A	63158.915	0.283	5.133	1.00	0.00	C
	ATOM	866	O	ASP A	63159.079	0.916	6.177	1.00	0.00	O
25	ATOM	867	CB	ASP A	63160.827	-1.189	5.794	1.00	0.00	C
	ATOM	868	CG	ASP A	63161.869	-0.155	5.418	1.00	0.00	C
	ATOM	869	OD1	ASP A	63162.279	0.624	6.304	1.00	0.00	O
	ATOM	870	OD2	ASP A	63162.277	-0.124	4.237	1.00	0.00	O
	ATOM	871	H	ASP A	63160.627	-0.815	3.126	1.00	0.00	H

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	ATOM	872	HA	ASP	A	63158.866	-1.847	5.245	1.00	0.00	H
	ATOM	873	1HB	ASP	A	63160.564	-1.046	6.832	1.00	0.00	H
	ATOM	874	2HB	ASP	A	63161.258	-2.171	5.668	1.00	0.00	H
	ATOM	875	N	GLY	A	64158.180	0.734	4.122	1.00	0.00	N
5	ATOM	876	CA	GLY	A	64157.517	2.023	4.204	1.00	0.00	C
	ATOM	877	C	GLY	A	64158.203	3.081	3.362	1.00	0.00	C
	ATOM	878	O	GLY	A	64158.146	4.269	3.680	1.00	0.00	O
	ATOM	879	H	GLY	A	64158.085	0.187	3.315	1.00	0.00	H
	ATOM	880	1HA	GLY	A	64156.498	1.913	3.865	1.00	0.00	H
10	ATOM	881	2HA	GLY	A	64157.511	2.347	5.233	1.00	0.00	H
	ATOM	882	N	THR	A	65158.852	2.650	2.285	1.00	0.00	N
	ATOM	883	CA	THR	A	65159.552	3.569	1.395	1.00	0.00	C
	ATOM	884	C	THR	A	65159.130	3.350	-0.054	1.00	0.00	C
	ATOM	885	O	THR	A	65159.318	2.267	-0.609	1.00	0.00	O
15	ATOM	886	CB	THR	A	65161.065	3.392	1.530	1.00	0.00	C
	ATOM	887	OG1	THR	A	65161.396	2.023	1.693	1.00	0.00	O
	ATOM	888	CG2	THR	A	65161.654	4.148	2.700	1.00	0.00	C
	ATOM	889	H	THR	A	65158.861	1.690	2.085	1.00	0.00	H
	ATOM	890	HA	THR	A	65159.290	4.576	1.685	1.00	0.00	H
20	ATOM	891	HB	THR	A	65161.541	3.751	0.629	1.00	0.00	H
	ATOM	892	HG1	THR	A	65161.415	1.594	0.834	1.00	0.00	H
	ATOM	893	1HG2	THR	A	65160.857	4.539	3.315	1.00	0.00	H
	ATOM	894	2HG2	THR	A	65162.259	4.965	2.333	1.00	0.00	H
	ATOM	895	3HG2	THR	A	65162.268	3.482	3.288	1.00	0.00	H
25	ATOM	896	N	PHE	A	66158.560	4.385	-0.663	1.00	0.00	N
	ATOM	897	CA	PHE	A	66158.112	4.304	-2.048	1.00	0.00	C
	ATOM	898	C	PHE	A	66159.029	5.108	-2.965	1.00	0.00	C
	ATOM	899	O	PHE	A	66159.115	6.331	-2.857	1.00	0.00	O
	ATOM	900	CB	PHE	A	66156.675	4.814	-2.172	1.00	0.00	C



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	ATOM	901	CG	PHE A	66156.029	4.474	-3.484	1.00	0.00	C
	ATOM	902	CD1	PHE A	66155.625	5.475	-4.354	1.00	0.00	C
	ATOM	903	CD2	PHE A	66155.826	3.153	-3.849	1.00	0.00	C
	ATOM	904	CE1	PHE A	66155.032	5.165	-5.562	1.00	0.00	C
5	ATOM	905	CE2	PHE A	66155.232	2.836	-5.057	1.00	0.00	C
	ATOM	906	CZ	PHE A	66154.834	3.843	-5.914	1.00	0.00	C
	ATOM	907	H	PHE A	66158.438	5.222	-0.168	1.00	0.00	H
	ATOM	908	HA	PHE A	66158.143	3.268	-2.347	1.00	0.00	H
	ATOM	909	1HB	PHE A	66156.077	4.380	-1.385	1.00	0.00	H
10	ATOM	910	2HB	PHE A	66156.672	5.890	-2.068	1.00	0.00	H
	ATOM	911	HD1	PHE A	66155.780	6.509	-4.080	1.00	0.00	H
	ATOM	912	HD2	PHE A	66156.137	2.364	-3.179	1.00	0.00	H
	ATOM	913	HE1	PHE A	66154.721	5.954	-6.231	1.00	0.00	H
	ATOM	914	HE2	PHE A	66155.080	1.803	-5.329	1.00	0.00	H
15	ATOM	915	HZ	PHE A	66154.371	3.598	-6.858	1.00	0.00	H
	ATOM	916	N	ARG A	67159.713	4.411	-3.867	1.00	0.00	N
	ATOM	917	CA	ARG A	67160.624	5.059	-4.803	1.00	0.00	C
	ATOM	918	C	ARG A	67161.735	5.794	-4.062	1.00	0.00	C
	ATOM	919	O	ARG A	67162.174	6.864	-4.482	1.00	0.00	O
20	ATOM	920	CB	ARG A	67159.858	6.036	-5.698	1.00	0.00	C
	ATOM	921	CG	ARG A	67158.819	5.365	-6.581	1.00	0.00	C
	ATOM	922	CD	ARG A	67158.307	6.310	-7.654	1.00	0.00	C
	ATOM	923	NE	ARG A	67159.178	6.330	-8.827	1.00	0.00	N
	ATOM	924	CZ	ARG A	67159.307	5.310	-9.672	1.00	0.00	C
25	ATOM	925	NH1	ARG A	67158.624	4.189	-9.480	1.00	0.00	N
	ATOM	926	NH2	ARG A	67160.122	5.412	-10.714	1.00	0.00	N
	ATOM	927	H	ARG A	67159.602	3.438	-3.904	1.00	0.00	H
	ATOM	928	HA	ARG A	67161.066	4.291	-5.420	1.00	0.00	H
	ATOM	929	1HB	ARG A	67159.357	6.759	-5.074	1.00	0.00	H

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	ATOM	930	2HB	ARG A	67160.564	6.549	-6.336	1.00	0.00	H
	ATOM	931	1HG	ARG A	67159.266	4.504	-7.056	1.00	0.00	H
	ATOM	932	2HG	ARG A	67157.989	5.048	-5.965	1.00	0.00	H
	ATOM	933	1HD	ARG A	67157.321	5.990	-7.957	1.00	0.00	H
5	ATOM	934	2HD	ARG A	67158.250	7.306	-7.242	1.00	0.00	H
	ATOM	935	HE	ARG A	67159.695	7.147	-8.993	1.00	0.00	H
	ATOM	936	1HH1	ARG A	67158.008	4.106	-8.697	1.00	0.00	H
	ATOM	937	2HH1	ARG A	67158.725	3.426	-10.119	1.00	0.00	H
	ATOM	938	1HH2	ARG A	67160.639	6.254	-10.864	1.00	0.00	H
10	ATOM	939	2HH2	ARG A	67160.219	4.646	-11.348	1.00	0.00	H
	ATOM	940	N	GLY A	68162.187	5.212	-2.955	1.00	0.00	N
	ATOM	941	CA	GLY A	68163.243	5.827	-2.173	1.00	0.00	C
	ATOM	942	C	GLY A	68162.762	7.037	-1.396	1.00	0.00	C
	ATOM	943	O	GLY A	68163.536	7.953	-1.119	1.00	0.00	O
15	ATOM	944	H	GLY A	68161.800	4.359	-2.667	1.00	0.00	H
	ATOM	945	1HA	GLY A	68163.632	5.098	-1.478	1.00	0.00	H
	ATOM	946	2HA	GLY A	68164.037	6.132	-2.838	1.00	0.00	H
	ATOM	947	N	THR A	69161.481	7.040	-1.044	1.00	0.00	N
	ATOM	948	CA	THR A	69160.897	8.147	-0.295	1.00	0.00	C
20	ATOM	949	C	THR A	69160.046	7.632	0.861	1.00	0.00	C
	ATOM	950	O	THR A	69158.867	7.323	0.687	1.00	0.00	O
	ATOM	951	CB	THR A	69160.049	9.023	-1.217	1.00	0.00	C
	ATOM	952	OG1	THR A	69160.737	9.293	-2.425	1.00	0.00	O
	ATOM	953	CG2	THR A	69159.669	10.351	-0.598	1.00	0.00	C
25	ATOM	954	H	THR A	69160.914	6.280	-1.294	1.00	0.00	H
	ATOM	955	HA	THR A	69161.706	8.738	0.105	1.00	0.00	H
	ATOM	956	HB	THR A	69159.135	8.498	-1.457	1.00	0.00	H
	ATOM	957	HG1	THR A	69161.578	9.711	-2.228	1.00	0.00	H
	ATOM	958	1HG2	THR A	69160.045	11.156	-1.213	1.00	0.00	H

	ATOM	959	2HG2	THR	A	69160.099	10.423	0.390	1.00	0.00	H
	ATOM	960	3HG2	THR	A	69158.594	10.423	-0.530	1.00	0.00	H
	ATOM	961	N	ARG	A	70160.651	7.542	2.041	1.00	0.00	N
	ATOM	962	CA	ARG	A	70159.949	7.064	3.226	1.00	0.00	C
5	ATOM	963	C	ARG	A	70158.808	8.005	3.600	1.00	0.00	C
	ATOM	964	O	ARG	A	70158.979	9.224	3.623	1.00	0.00	O
	ATOM	965	CB	ARG	A	70160.920	6.931	4.401	1.00	0.00	C
	ATOM	966	CG	ARG	A	70160.340	6.178	5.588	1.00	0.00	C
	ATOM	967	CD	ARG	A	70160.741	6.817	6.909	1.00	0.00	C
10	ATOM	968	NE	ARG	A	70161.752	6.032	7.613	1.00	0.00	N
	ATOM	969	CZ	ARG	A	70163.055	6.085	7.344	1.00	0.00	C
	ATOM	970	NH1	ARG	A	70163.511	6.883	6.385	1.00	0.00	N
	ATOM	971	NH2	ARG	A	70163.905	5.337	8.033	1.00	0.00	N
	ATOM	972	H	ARG	A	70161.592	7.802	2.115	1.00	0.00	H
15	ATOM	973	HA	ARG	A	70159.538	6.091	2.999	1.00	0.00	H
	ATOM	974	1HB	ARG	A	70161.803	6.407	4.066	1.00	0.00	H
	ATOM	975	2HB	ARG	A	70161.203	7.920	4.732	1.00	0.00	H
	ATOM	976	1HG	ARG	A	70159.263	6.180	5.511	1.00	0.00	H
	ATOM	977	2HG	ARG	A	70160.703	5.159	5.566	1.00	0.00	H
20	ATOM	978	1HD	ARG	A	70161.136	7.802	6.714	1.00	0.00	H
	ATOM	979	2HD	ARG	A	70159.863	6.899	7.533	1.00	0.00	H
	ATOM	980	HE	ARG	A	70161.444	5.432	8.325	1.00	0.00	H
	ATOM	981	1HH1	ARG	A	70162.877	7.450	5.861	1.00	0.00	H
	ATOM	982	2HH1	ARG	A	70164.491	6.919	6.190	1.00	0.00	H
25	ATOM	983	1HH2	ARG	A	70163.567	4.734	8.756	1.00	0.00	H
	ATOM	984	2HH2	ARG	A	70164.884	5.377	7.832	1.00	0.00	H
	ATOM	985	N	TYR	A	71157.646	7.431	3.890	1.00	0.00	N
	ATOM	986	CA	TYR	A	71156.476	8.218	4.264	1.00	0.00	C
	ATOM	987	C	TYR	A	71156.055	7.920	5.700	1.00	0.00	C

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	ATOM	988	O	TYR A	71155.648	8.817	6.437	1.00	0.00	O
	ATOM	989	CB	TYR A	71155.316	7.932	3.309	1.00	0.00	C
	ATOM	990	CG	TYR A	71155.479	8.569	1.948	1.00	0.00	C
	ATOM	991	CD1	TYR A	71155.397	7.809	0.788	1.00	0.00	C
5	ATOM	992	CD2	TYR A	71155.717	9.933	1.823	1.00	0.00	C
	ATOM	993	CE1	TYR A	71155.547	8.389	-0.457	1.00	0.00	C
	ATOM	994	CE2	TYR A	71155.867	10.520	0.581	1.00	0.00	C
	ATOM	995	CZ	TYR A	71155.781	9.745	-0.555	1.00	0.00	C
	ATOM	996	OH	TYR A	71155.931	10.325	-1.793	1.00	0.00	O
10	ATOM	997	H	TYR A	71157.572	6.454	3.855	1.00	0.00	H
	ATOM	998	HA	TYR A	71156.742	9.262	4.190	1.00	0.00	H
	ATOM	999	1HB	TYR A	71155.232	6.864	3.166	1.00	0.00	H
	ATOM	1000	2HB	TYR A	71154.401	8.305	3.744	1.00	0.00	H
	ATOM	1001	HD1	TYR A	71155.213	6.748	0.869	1.00	0.00	H
15	ATOM	1002	HD2	TYR A	71155.785	10.538	2.716	1.00	0.00	H
	ATOM	1003	HE1	TYR A	71155.480	7.781	-1.347	1.00	0.00	H
	ATOM	1004	HE2	TYR A	71156.051	11.581	0.506	1.00	0.00	H
	ATOM	1005	HH	TYR A	71155.460	11.161	-1.814	1.00	0.00	H
	ATOM	1006	N	PHE A	72156.155	6.653	6.089	1.00	0.00	N
20	ATOM	1007	CA	PHE A	72155.784	6.235	7.436	1.00	0.00	C
	ATOM	1008	C	PHE A	72156.783	5.220	7.984	1.00	0.00	C
	ATOM	1009	O	PHE A	72157.758	4.872	7.320	1.00	0.00	O
	ATOM	1010	CB	PHE A	72154.378	5.635	7.437	1.00	0.00	C
	ATOM	1011	CG	PHE A	72154.144	4.648	6.328	1.00	0.00	C
25	ATOM	1012	CD1	PHE A	72153.812	5.083	5.055	1.00	0.00	C
	ATOM	1013	CD2	PHE A	72154.258	3.287	6.559	1.00	0.00	C
	ATOM	1014	CE1	PHE A	72153.598	4.179	4.033	1.00	0.00	C
	ATOM	1015	CE2	PHE A	72154.045	2.378	5.541	1.00	0.00	C
	ATOM	1016	CZ	PHE A	72153.714	2.824	4.276	1.00	0.00	C

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	ATOM	1017	H	PHE A	72156.486	5.982	5.455	1.00	0.00	H
	ATOM	1018	HA	PHE A	72155.795	7.110	8.068	1.00	0.00	H
	ATOM	1019	1HB	PHE A	72154.212	5.125	8.375	1.00	0.00	H
	ATOM	1020	2HB	PHE A	72153.654	6.431	7.333	1.00	0.00	H
5	ATOM	1021	HD1	PHE A	72153.721	6.142	4.864	1.00	0.00	H
	ATOM	1022	HD2	PHE A	72154.517	2.937	7.548	1.00	0.00	H
	ATOM	1023	HE1	PHE A	72153.338	4.530	3.045	1.00	0.00	H
	ATOM	1024	HE2	PHE A	72154.137	1.319	5.734	1.00	0.00	H
	ATOM	1025	HZ	PHE A	72153.547	2.115	3.479	1.00	0.00	H
10	ATOM	1026	N	THR A	73156.533	4.750	9.202	1.00	0.00	N
	ATOM	1027	CA	THR A	73157.409	3.775	9.840	1.00	0.00	C
	ATOM	1028	C	THR A	73156.665	2.470	10.108	1.00	0.00	C
	ATOM	1029	O	THR A	73155.816	2.398	10.997	1.00	0.00	O
	ATOM	1030	CB	THR A	73157.964	4.337	11.151	1.00	0.00	C
15	ATOM	1031	OG1	THR A	73157.040	5.231	11.743	1.00	0.00	O
	ATOM	1032	CG2	THR A	73159.273	5.077	10.977	1.00	0.00	C
	ATOM	1033	H	THR A	73155.738	5.066	9.682	1.00	0.00	H
	ATOM	1034	HA	THR A	73158.230	3.576	9.168	1.00	0.00	H
	ATOM	1035	HB	THR A	73158.133	3.520	11.837	1.00	0.00	H
20	ATOM	1036	HG1	THR A	73157.405	5.572	12.564	1.00	0.00	H
	ATOM	1037	1HG2	THR A	73159.290	5.554	10.008	1.00	0.00	H
	ATOM	1038	2HG2	THR A	73160.093	4.377	11.048	1.00	0.00	H
	ATOM	1039	3HG2	THR A	73159.369	5.824	11.749	1.00	0.00	H
	ATOM	1040	N	CYS A	74156.991	1.440	9.335	1.00	0.00	N
25	ATOM	1041	CA	CYS A	74156.354	0.138	9.488	1.00	0.00	C
	ATOM	1042	C	CYS A	74157.390	-0.982	9.465	1.00	0.00	C
	ATOM	1043	O	CYS A	74158.591	-0.728	9.368	1.00	0.00	O
	ATOM	1044	CB	CYS A	74155.323	-0.083	8.379	1.00	0.00	C
	ATOM	1045	SG	CYS A	74153.706	0.652	8.718	1.00	0.00	S

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	ATOM	1046	H	CYS A	74157.676	1.559	8.643	1.00	0.00	H
	ATOM	1047	HA	CYS A	74155.850	0.125	10.442	1.00	0.00	H
	ATOM	1048	1HB	CYS A	74155.694	0.350	7.462	1.00	0.00	H
	ATOM	1049	2HB	CYS A	74155.180	-1.144	8.237	1.00	0.00	H
5	ATOM	1050	HG	CYS A	74153.749	1.078	9.577	1.00	0.00	H
	ATOM	1051	N	ALA A	75156.918	-2.220	9.553	1.00	0.00	N
	ATOM	1052	CA	ALA A	75157.803	-3.378	9.542	1.00	0.00	C
	ATOM	1053	C	ALA A	75158.397	-3.602	8.156	1.00	0.00	C
	ATOM	1054	O	ALA A	75157.882	-3.095	7.160	1.00	0.00	O
10	ATOM	1055	CB	ALA A	75157.053	-4.619	10.004	1.00	0.00	C
	ATOM	1056	H	ALA A	75155.951	-2.359	9.628	1.00	0.00	H
	ATOM	1057	HA	ALA A	75158.605	-3.190	10.241	1.00	0.00	H
	ATOM	1058	1HB	ALA A	75157.153	-4.723	11.074	1.00	0.00	H
	ATOM	1059	2HB	ALA A	75157.466	-5.490	9.518	1.00	0.00	H
15	ATOM	1060	3HB	ALA A	75156.008	-4.525	9.747	1.00	0.00	H
	ATOM	1061	N	LEU A	76159.484	-4.366	8.100	1.00	0.00	N
	ATOM	1062	CA	LEU A	76160.148	-4.658	6.836	1.00	0.00	C
	ATOM	1063	C	LEU A	76159.378	-5.712	6.046	1.00	0.00	C
	ATOM	1064	O	LEU A	76158.795	-6.631	6.623	1.00	0.00	O
20	ATOM	1065	CB	LEU A	76161.579	-5.137	7.087	1.00	0.00	C
	ATOM	1066	CG	LEU A	76162.627	-4.025	7.176	1.00	0.00	C
	ATOM	1067	CD1	LEU A	76163.728	-4.406	8.153	1.00	0.00	C
	ATOM	1068	CD2	LEU A	76163.208	-3.731	5.802	1.00	0.00	C
	ATOM	1069	H	LEU A	76159.846	-4.742	8.929	1.00	0.00	H
25	ATOM	1070	HA	LEU A	76160.179	-3.745	6.259	1.00	0.00	H
	ATOM	1071	1HB	LEU A	76161.593	-5.692	8.013	1.00	0.00	H
	ATOM	1072	2HB	LEU A	76161.861	-5.800	6.284	1.00	0.00	H
	ATOM	1073	HG	LEU A	76162.155	-3.124	7.541	1.00	0.00	H
	ATOM	1074	1HD1	LEU A	76164.661	-3.965	7.834	1.00	0.00	H

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	ATOM	1075	2HD1	LEU	A	76163.828	-5.481	8.180	1.00	0.00	H
	ATOM	1076	3HD1	LEU	A	76163.476	-4.044	9.139	1.00	0.00	H
	ATOM	1077	1HD2	LEU	A	76164.135	-4.272	5.681	1.00	0.00	H
	ATOM	1078	2HD2	LEU	A	76163.395	-2.671	5.708	1.00	0.00	H
5	ATOM	1079	3HD2	LEU	A	76162.508	-4.041	5.040	1.00	0.00	H
	ATOM	1080	N	LYS	A	77159.379	-5.572	4.724	1.00	0.00	N
	ATOM	1081	CA	LYS	A	77158.681	-6.513	3.857	1.00	0.00	C
	ATOM	1082	C	LYS	A	77157.188	-6.536	4.170	1.00	0.00	C
	ATOM	1083	O	LYS	A	77156.545	-7.584	4.103	1.00	0.00	O
10	ATOM	1084	CB	LYS	A	77159.268	-7.917	4.011	1.00	0.00	C
	ATOM	1085	CG	LYS	A	77160.742	-8.002	3.648	1.00	0.00	C
	ATOM	1086	CD	LYS	A	77160.936	-8.190	2.152	1.00	0.00	C
	ATOM	1087	CE	LYS	A	77162.179	-7.470	1.656	1.00	0.00	C
	ATOM	1088	NZ	LYS	A	77162.702	-8.067	0.396	1.00	0.00	N
15	ATOM	1089	H	LYS	A	77159.861	-4.819	4.324	1.00	0.00	H
	ATOM	1090	HA	LYS	A	77158.816	-6.185	2.837	1.00	0.00	H
	ATOM	1091	1HB	LYS	A	77159.154	-8.231	5.038	1.00	0.00	H
	ATOM	1092	2HB	LYS	A	77158.722	-8.595	3.373	1.00	0.00	H
	ATOM	1093	1HG	LYS	A	77161.232	-7.089	3.952	1.00	0.00	H
20	ATOM	1094	2HG	LYS	A	77161.183	-8.840	4.168	1.00	0.00	H
	ATOM	1095	1HD	LYS	A	77161.036	-9.245	1.942	1.00	0.00	H
	ATOM	1096	2HD	LYS	A	77160.073	-7.799	1.634	1.00	0.00	H
	ATOM	1097	1HE	LYS	A	77161.932	-6.434	1.478	1.00	0.00	H
	ATOM	1098	2HE	LYS	A	77162.943	-7.531	2.418	1.00	0.00	H
25	ATOM	1099	1HZ	LYS	A	77162.608	-9.102	0.425	1.00	0.00	H
	ATOM	1100	2HZ	LYS	A	77163.706	-7.824	0.274	1.00	0.00	H
	ATOM	1101	3HZ	LYS	A	77162.168	-7.703	-0.419	1.00	0.00	H
	ATOM	1102	N	LYS	A	78156.643	-5.373	4.513	1.00	0.00	N
	ATOM	1103	CA	LYS	A	78155.224	-5.259	4.837	1.00	0.00	C

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	ATOM	1104	C	LYS A	78154.686	-3.886	4.449	1.00	0.00	C
	ATOM	1105	O	LYS A	78153.863	-3.308	5.158	1.00	0.00	O
	ATOM	1106	CB	LYS A	78155.000	-5.505	6.330	1.00	0.00	C
	ATOM	1107	CG	LYS A	78155.513	-6.854	6.809	1.00	0.00	C
5	ATOM	1108	CD	LYS A	78155.303	-7.030	8.304	1.00	0.00	C
	ATOM	1109	CE	LYS A	78154.065	-7.862	8.598	1.00	0.00	C
	ATOM	1110	NZ	LYS A	78153.334	-7.367	9.797	1.00	0.00	N
	ATOM	1111	H	LYS A	78157.206	-4.572	4.548	1.00	0.00	H
	ATOM	1112	HA	LYS A	78154.695	-6.012	4.274	1.00	0.00	H
10	ATOM	1113	1HB	LYS A	78155.507	-4.732	6.890	1.00	0.00	H
	ATOM	1114	2HB	LYS A	78153.942	-5.453	6.537	1.00	0.00	H
	ATOM	1115	1HG	LYS A	78154.984	-7.636	6.285	1.00	0.00	H
	ATOM	1116	2HG	LYS A	78156.570	-6.924	6.592	1.00	0.00	H
	ATOM	1117	1HD	LYS A	78156.165	-7.526	8.723	1.00	0.00	H
15	ATOM	1118	2HD	LYS A	78155.188	-6.057	8.759	1.00	0.00	H
	ATOM	1119	1HE	LYS A	78153.407	-7.820	7.743	1.00	0.00	H
	ATOM	1120	2HE	LYS A	78154.367	-8.886	8.768	1.00	0.00	H
	ATOM	1121	1HZ	LYS A	78152.990	-6.399	9.630	1.00	0.00	H
	ATOM	1122	2HZ	LYS A	78153.965	-7.361	10.623	1.00	0.00	H
20	ATOM	1123	3HZ	LYS A	78152.521	-7.982	9.999	1.00	0.00	H
	ATOM	1124	N	ALA A	79155.156	-3.369	3.318	1.00	0.00	N
	ATOM	1125	CA	ALA A	79154.722	-2.064	2.836	1.00	0.00	C
	ATOM	1126	C	ALA A	79154.543	-2.070	1.322	1.00	0.00	C
	ATOM	1127	O	ALA A	79155.517	-1.992	0.571	1.00	0.00	O
25	ATOM	1128	CB	ALA A	79155.720	-0.992	3.247	1.00	0.00	C
	ATOM	1129	H	ALA A	79155.811	-3.879	2.796	1.00	0.00	H
	ATOM	1130	HA	ALA A	79153.774	-1.837	3.299	1.00	0.00	H
	ATOM	1131	1HB	ALA A	79155.219	-0.036	3.300	1.00	0.00	H
	ATOM	1132	2HB	ALA A	79156.515	-0.941	2.518	1.00	0.00	H



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	ATOM	1133	3HB	ALA A	79156.133	-1.237	4.214	1.00	0.00	H
	ATOM	1134	N	LEU A	80153.294	-2.162	0.878	1.00	0.00	N
	ATOM	1135	CA	LEU A	80152.988	-2.178	-0.548	1.00	0.00	C
	ATOM	1136	C	LEU A	80152.143	-0.968	-0.936	1.00	0.00	C
5	ATOM	1137	O	LEU A	80150.992	-0.842	-0.519	1.00	0.00	O
	ATOM	1138	CB	LEU A	80152.252	-3.467	-0.919	1.00	0.00	C
	ATOM	1139	CG	LEU A	80151.835	-3.574	-2.387	1.00	0.00	C
	ATOM	1140	CD1	LEU A	80153.048	-3.819	-3.270	1.00	0.00	C
	ATOM	1141	CD2	LEU A	80150.809	-4.683	-2.568	1.00	0.00	C
10	ATOM	1142	H	LEU A	80152.561	-2.220	1.525	1.00	0.00	H
	ATOM	1143	HA	LEU A	80153.922	-2.138	-1.088	1.00	0.00	H
	ATOM	1144	1HB	LEU A	80152.896	-4.303	-0.687	1.00	0.00	H
	ATOM	1145	2HB	LEU A	80151.364	-3.538	-0.309	1.00	0.00	H
	ATOM	1146	HG	LEU A	80151.381	-2.644	-2.693	1.00	0.00	H
15	ATOM	1147	1HD1	LEU A	80153.457	-2.872	-3.590	1.00	0.00	H
	ATOM	1148	2HD1	LEU A	80152.753	-4.394	-4.136	1.00	0.00	H
	ATOM	1149	3HD1	LEU A	80153.796	-4.364	-2.713	1.00	0.00	H
	ATOM	1150	1HD2	LEU A	80150.935	-5.134	-3.541	1.00	0.00	H
	ATOM	1151	2HD2	LEU A	80149.814	-4.270	-2.488	1.00	0.00	H
20	ATOM	1152	3HD2	LEU A	80150.950	-5.432	-1.803	1.00	0.00	H
	ATOM	1153	N	PHE A	81152.723	-0.082	-1.739	1.00	0.00	N
	ATOM	1154	CA	PHE A	81152.024	1.117	-2.185	1.00	0.00	C
	ATOM	1155	C	PHE A	81151.158	0.819	-3.405	1.00	0.00	C
	ATOM	1156	O	PHE A	81151.569	0.089	-4.307	1.00	0.00	O
25	ATOM	1157	CB	PHE A	81153.027	2.224	-2.515	1.00	0.00	C
	ATOM	1158	CG	PHE A	81153.688	2.816	-1.303	1.00	0.00	C
	ATOM	1159	CD1	PHE A	81153.308	4.060	-0.828	1.00	0.00	C
	ATOM	1160	CD2	PHE A	81154.690	2.126	-0.639	1.00	0.00	C
	ATOM	1161	CE1	PHE A	81153.915	4.607	0.287	1.00	0.00	C

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	ATOM	1162	CE2	PHE	A	81155.300	2.668	0.477	1.00	0.00	C
	ATOM	1163	CZ	PHE	A	81154.912	3.909	0.941	1.00	0.00	C
	ATOM	1164	H	PHE	A	81153.643	-0.239	-2.039	1.00	0.00	H
	ATOM	1165	HA	PHE	A	81151.388	1.449	-1.379	1.00	0.00	H
5	ATOM	1166	1HB	PHE	A	81153.800	1.822	-3.151	1.00	0.00	H
	ATOM	1167	2HB	PHE	A	81152.515	3.020	-3.037	1.00	0.00	H
	ATOM	1168	HD1	PHE	A	81152.527	4.606	-1.338	1.00	0.00	H
	ATOM	1169	HD2	PHE	A	81154.995	1.156	-1.000	1.00	0.00	H
	ATOM	1170	HE1	PHE	A	81153.609	5.579	0.647	1.00	0.00	H
10	ATOM	1171	HE2	PHE	A	81156.080	2.121	0.985	1.00	0.00	H
	ATOM	1172	HZ	PHE	A	81155.388	4.335	1.812	1.00	0.00	H
	ATOM	1173	N	VAL	A	82149.959	1.389	-3.427	1.00	0.00	N
	ATOM	1174	CA	VAL	A	82149.035	1.184	-4.535	1.00	0.00	C
	ATOM	1175	C	VAL	A	82148.156	2.412	-4.753	1.00	0.00	C
15	ATOM	1176	O	VAL	A	82148.101	3.306	-3.909	1.00	0.00	O
	ATOM	1177	CB	VAL	A	82148.134	-0.041	-4.297	1.00	0.00	C
	ATOM	1178	CG1	VAL	A	82148.953	-1.322	-4.333	1.00	0.00	C
	ATOM	1179	CG2	VAL	A	82147.392	0.090	-2.976	1.00	0.00	C
	ATOM	1180	H	VAL	A	82149.687	1.962	-2.677	1.00	0.00	H
20	ATOM	1181	HA	VAL	A	82149.619	1.009	-5.427	1.00	0.00	H
	ATOM	1182	HB	VAL	A	82147.404	-0.087	-5.093	1.00	0.00	H
	ATOM	1183	1HG1	VAL	A	82148.303	-2.170	-4.174	1.00	0.00	H
	ATOM	1184	2HG1	VAL	A	82149.702	-1.292	-3.555	1.00	0.00	H
	ATOM	1185	3HG1	VAL	A	82149.436	-1.415	-5.295	1.00	0.00	H
25	ATOM	1186	1HG2	VAL	A	82147.988	-0.338	-2.185	1.00	0.00	H
	ATOM	1187	2HG2	VAL	A	82146.449	-0.432	-3.039	1.00	0.00	H
	ATOM	1188	3HG2	VAL	A	82147.212	1.134	-2.767	1.00	0.00	H
	ATOM	1189	N	LYS	A	83147.471	2.448	-5.891	1.00	0.00	N
	ATOM	1190	CA	LYS	A	83146.594	3.565	-6.221	1.00	0.00	C

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	ATOM	1191	C	LYS A	83145.381	3.596	-5.299	1.00	0.00	C
	ATOM	1192	O	LYS A	83144.624	2.629	-5.217	1.00	0.00	O
	ATOM	1193	CB	LYS A	83146.139	3.470	-7.679	1.00	0.00	C
	ATOM	1194	CG	LYS A	83147.278	3.584	-8.680	1.00	0.00	C
5	ATOM	1195	CD	LYS A	83146.839	3.163	-10.073	1.00	0.00	C
	ATOM	1196	CE	LYS A	83147.457	4.048	-11.143	1.00	0.00	C
	ATOM	1197	NZ	LYS A	83147.818	3.274	-12.363	1.00	0.00	N
	ATOM	1198	H	LYS A	83147.557	1.704	-6.524	1.00	0.00	H
	ATOM	1199	HA	LYS A	83147.155	4.478	-6.087	1.00	0.00	H
10	ATOM	1200	1HB	LYS A	83145.649	2.520	-7.830	1.00	0.00	H
	ATOM	1201	2HB	LYS A	83145.434	4.265	-7.876	1.00	0.00	H
	ATOM	1202	1HG	LYS A	83147.612	4.610	-8.714	1.00	0.00	H
	ATOM	1203	2HG	LYS A	83148.090	2.948	-8.359	1.00	0.00	H
	ATOM	1204	1HD	LYS A	83147.145	2.142	-10.243	1.00	0.00	H
15	ATOM	1205	2HD	LYS A	83145.763	3.233	-10.137	1.00	0.00	H
	ATOM	1206	1HE	LYS A	83146.748	4.815	-11.411	1.00	0.00	H
	ATOM	1207	2HE	LYS A	83148.348	4.506	-10.741	1.00	0.00	H
	ATOM	1208	1HZ	LYS A	83148.624	3.721	-12.844	1.00	0.00	H
	ATOM	1209	2HZ	LYS A	83147.011	3.243	-13.018	1.00	0.00	H
20	ATOM	1210	3HZ	LYS A	83148.078	2.300	-12.105	1.00	0.00	H
	ATOM	1211	N	LEU A	84145.203	4.715	-4.606	1.00	0.00	N
	ATOM	1212	CA	LEU A	84144.082	4.880	-3.689	1.00	0.00	C
	ATOM	1213	C	LEU A	84142.752	4.717	-4.418	1.00	0.00	C
	ATOM	1214	O	LEU A	84141.808	4.136	-3.885	1.00	0.00	O
25	ATOM	1215	CB	LEU A	84144.149	6.254	-3.018	1.00	0.00	C
	ATOM	1216	CG	LEU A	84142.966	6.592	-2.109	1.00	0.00	C
	ATOM	1217	CD1	LEU A	84143.161	5.981	-0.730	1.00	0.00	C
	ATOM	1218	CD2	LEU A	84142.791	8.100	-2.004	1.00	0.00	C
	ATOM	1219	H	LEU A	84145.841	5.450	-4.716	1.00	0.00	H

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	ATOM	1220	HA	LEU A	84144.160	4.115	-2.931	1.00	0.00	H
	ATOM	1221	1HB	LEU A	84145.054	6.300	-2.429	1.00	0.00	H
	ATOM	1222	2HB	LEU A	84144.206	7.004	-3.793	1.00	0.00	H
	ATOM	1223	HG	LEU A	84142.063	6.179	-2.533	1.00	0.00	H
5	ATOM	1224	1HD1	LEU A	84142.445	6.406	-0.043	1.00	0.00	H
	ATOM	1225	2HD1	LEU A	84144.162	6.188	-0.382	1.00	0.00	H
	ATOM	1226	3HD1	LEU A	84143.014	4.912	-0.787	1.00	0.00	H
	ATOM	1227	1HD2	LEU A	84142.772	8.530	-2.995	1.00	0.00	H
	ATOM	1228	2HD2	LEU A	84143.614	8.521	-1.445	1.00	0.00	H
10	ATOM	1229	3HD2	LEU A	84141.863	8.321	-1.498	1.00	0.00	H
	ATOM	1230	N	LYS A	85142.688	5.234	-5.641	1.00	0.00	N
	ATOM	1231	CA	LYS A	85141.474	5.146	-6.444	1.00	0.00	C
	ATOM	1232	C	LYS A	85141.139	3.693	-6.773	1.00	0.00	C
	ATOM	1233	O	LYS A	85139.984	3.356	-7.028	1.00	0.00	O
15	ATOM	1234	CB	LYS A	85141.633	5.950	-7.735	1.00	0.00	C
	ATOM	1235	CG	LYS A	85142.797	5.492	-8.599	1.00	0.00	C
	ATOM	1236	CD	LYS A	85143.178	6.548	-9.624	1.00	0.00	C
	ATOM	1237	CE	LYS A	85144.685	6.620	-9.814	1.00	0.00	C
	ATOM	1238	NZ	LYS A	85145.077	7.728	-10.729	1.00	0.00	N
20	ATOM	1239	H	LYS A	85143.474	5.685	-6.012	1.00	0.00	H
	ATOM	1240	HA	LYS A	85140.664	5.566	-5.867	1.00	0.00	H
	ATOM	1241	1HB	LYS A	85140.726	5.860	-8.316	1.00	0.00	H
	ATOM	1242	2HB	LYS A	85141.786	6.989	-7.483	1.00	0.00	H
	ATOM	1243	1HG	LYS A	85143.648	5.297	-7.964	1.00	0.00	H
25	ATOM	1244	2HG	LYS A	85142.515	4.586	-9.115	1.00	0.00	H
	ATOM	1245	1HD	LYS A	85142.718	6.301	-10.569	1.00	0.00	H
	ATOM	1246	2HD	LYS A	85142.820	7.509	-9.287	1.00	0.00	H
	ATOM	1247	1HE	LYS A	85145.149	6.779	-8.852	1.00	0.00	H
	ATOM	1248	2HE	LYS A	85145.028	5.683	-10.228	1.00	0.00	H

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	ATOM	1249	1HZ	LYS	A	85146.064	8.004	-10.553	1.00	0.00	H
	ATOM	1250	2HZ	LYS	A	85144.465	8.553	-10.574	1.00	0.00	H
	ATOM	1251	3HZ	LYS	A	85144.984	7.423	-11.719	1.00	0.00	H
	ATOM	1252	N	SER	A	86142.158	2.837	-6.765	1.00	0.00	N
5	ATOM	1253	CA	SER	A	86141.968	1.423	-7.064	1.00	0.00	C
	ATOM	1254	C	SER	A	86141.945	0.594	-5.782	1.00	0.00	C
	ATOM	1255	O	SER	A	86142.403	-0.548	-5.762	1.00	0.00	O
	ATOM	1256	CB	SER	A	86143.077	0.922	-7.990	1.00	0.00	C
	ATOM	1257	OG	SER	A	86143.061	1.613	-9.227	1.00	0.00	O
10	ATOM	1258	H	SER	A	86143.057	3.164	-6.555	1.00	0.00	H
	ATOM	1259	HA	SER	A	86141.017	1.314	-7.563	1.00	0.00	H
	ATOM	1260	1HB	SER	A	86144.035	1.078	-7.518	1.00	0.00	H
	ATOM	1261	2HB	SER	A	86142.936	-0.133	-8.178	1.00	0.00	H
	ATOM	1262	HG	SER	A	86142.156	1.684	-9.542	1.00	0.00	H
15	ATOM	1263	N	CYS	A	87141.410	1.178	-4.715	1.00	0.00	N
	ATOM	1264	CA	CYS	A	87141.328	0.494	-3.430	1.00	0.00	C
	ATOM	1265	C	CYS	A	87139.877	0.215	-3.053	1.00	0.00	C
	ATOM	1266	O	CYS	A	87138.984	1.005	-3.360	1.00	0.00	O
	ATOM	1267	CB	CYS	A	87141.999	1.331	-2.340	1.00	0.00	C
20	ATOM	1268	SG	CYS	A	87143.804	1.366	-2.440	1.00	0.00	S
	ATOM	1269	H	CYS	A	87141.062	2.090	-4.794	1.00	0.00	H
	ATOM	1270	HA	CYS	A	87141.851	-0.446	-3.521	1.00	0.00	H
	ATOM	1271	1HB	CYS	A	87141.648	2.350	-2.411	1.00	0.00	H
	ATOM	1272	2HB	CYS	A	87141.730	0.931	-1.372	1.00	0.00	H
25	ATOM	1273	HG	CYS	A	87144.150	1.419	-1.547	1.00	0.00	H
	ATOM	1274	N	ARG	A	88139.650	-0.912	-2.386	1.00	0.00	N
	ATOM	1275	CA	ARG	A	88138.306	-1.294	-1.967	1.00	0.00	C
	ATOM	1276	C	ARG	A	88138.213	-1.371	-0.443	1.00	0.00	C
	ATOM	1277	O	ARG	A	88139.151	-1.815	0.220	1.00	0.00	O

	ATOM	1278	CB	ARG A	88137.922	-2.641	-2.582	1.00	0.00	C
	ATOM	1279	CG	ARG A	88137.196	-2.517	-3.912	1.00	0.00	C
	ATOM	1280	CD	ARG A	88135.691	-2.650	-3.741	1.00	0.00	C
	ATOM	1281	NE	ARG A	88135.014	-2.887	-5.014	1.00	0.00	N
5	ATOM	1282	CZ	ARG A	88135.048	-4.047	-5.667	1.00	0.00	C
	ATOM	1283	NH1	ARG A	88135.722	-5.076	-5.171	1.00	0.00	N
	ATOM	1284	NH2	ARG A	88134.404	-4.178	-6.818	1.00	0.00	N
	ATOM	1285	H	ARG A	88140.403	-1.499	-2.170	1.00	0.00	H
	ATOM	1286	HA	ARG A	88137.622	-0.538	-2.321	1.00	0.00	H
10	ATOM	1287	1HB	ARG A	88138.819	-3.221	-2.738	1.00	0.00	H
	ATOM	1288	2HB	ARG A	88137.278	-3.168	-1.893	1.00	0.00	H
	ATOM	1289	1HG	ARG A	88137.415	-1.551	-4.342	1.00	0.00	H
	ATOM	1290	2HG	ARG A	88137.545	-3.296	-4.575	1.00	0.00	H
	ATOM	1291	1HD	ARG A	88135.489	-3.478	-3.078	1.00	0.00	H
15	ATOM	1292	2HD	ARG A	88135.310	-1.739	-3.305	1.00	0.00	H
	ATOM	1293	HE	ARG A	88134.509	-2.143	-5.402	1.00	0.00	H
	ATOM	1294	1HH1	ARG A	88136.210	-4.985	-4.303	1.00	0.00	H
	ATOM	1295	2HH1	ARG A	88135.743	-5.945	-5.665	1.00	0.00	H
	ATOM	1296	1HH2	ARG A	88133.894	-3.405	-7.196	1.00	0.00	H
20	ATOM	1297	2HH2	ARG A	88134.428	-5.048	-7.309	1.00	0.00	H
	ATOM	1298	N	PRO A	89137.078	-0.939	0.135	1.00	0.00	N
	ATOM	1299	CA	PRO A	89136.874	-0.966	1.588	1.00	0.00	C
	ATOM	1300	C	PRO A	89137.102	-2.352	2.179	1.00	0.00	C
	ATOM	1301	O	PRO A	89136.511	-3.334	1.728	1.00	0.00	O
25	ATOM	1302	CB	PRO A	89135.410	-0.549	1.755	1.00	0.00	C
	ATOM	1303	CG	PRO A	89135.090	0.225	0.523	1.00	0.00	C
	ATOM	1304	CD	PRO A	89135.907	-0.394	-0.577	1.00	0.00	C
	ATOM	1305	HA	PRO A	89137.513	-0.254	2.089	1.00	0.00	H
	ATOM	1306	1HB	PRO A	89134.791	-1.430	1.841	1.00	0.00	H

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	ATOM	1307	2HB	PRO	A	89135.305	0.060	2.641	1.00	0.00	H
	ATOM	1308	1HG	PRO	A	89134.037	0.140	0.301	1.00	0.00	H
	ATOM	1309	2HG	PRO	A	89135.366	1.260	0.658	1.00	0.00	H
	ATOM	1310	1HD	PRO	A	89135.351	-1.180	-1.064	1.00	0.00	H
5	ATOM	1311	2HD	PRO	A	89136.206	0.358	-1.292	1.00	0.00	H
	ATOM	1312	N	ASP	A	90137.960	-2.426	3.190	1.00	0.00	N
	ATOM	1313	CA	ASP	A	90138.264	-3.694	3.844	1.00	0.00	C
	ATOM	1314	C	ASP	A	90137.542	-3.802	5.183	1.00	0.00	C
	ATOM	1315	O	ASP	A	90137.962	-3.209	6.176	1.00	0.00	O
10	ATOM	1316	CB	ASP	A	90139.773	-3.835	4.052	1.00	0.00	C
	ATOM	1317	CG	ASP	A	90140.201	-5.279	4.220	1.00	0.00	C
	ATOM	1318	OD1	ASP	A	90140.849	-5.592	5.241	1.00	0.00	O
	ATOM	1319	OD2	ASP	A	90139.886	-6.098	3.331	1.00	0.00	O
	ATOM	1320	H	ASP	A	90138.399	-1.609	3.505	1.00	0.00	H
15	ATOM	1321	HA	ASP	A	90137.923	-4.488	3.199	1.00	0.00	H
	ATOM	1322	1HB	ASP	A	90140.288	-3.423	3.197	1.00	0.00	H
	ATOM	1323	2HB	ASP	A	90140.061	-3.287	4.937	1.00	0.00	H
	ATOM	1324	N	SER	A	91136.454	-4.564	5.202	1.00	0.00	N
	ATOM	1325	CA	SER	A	91135.673	-4.751	6.420	1.00	0.00	C
20	ATOM	1326	C	SER	A	91136.034	-6.066	7.101	1.00	0.00	C
	ATOM	1327	O	SER	A	91135.196	-6.689	7.753	1.00	0.00	O
	ATOM	1328	CB	SER	A	91134.177	-4.723	6.101	1.00	0.00	C
	ATOM	1329	OG	SER	A	91133.431	-4.222	7.197	1.00	0.00	O
	ATOM	1330	H	SER	A	91136.168	-5.012	4.378	1.00	0.00	H
25	ATOM	1331	HA	SER	A	91135.904	-3.937	7.090	1.00	0.00	H
	ATOM	1332	1HB	SER	A	91134.005	-4.088	5.245	1.00	0.00	H
	ATOM	1333	2HB	SER	A	91133.841	-5.725	5.881	1.00	0.00	H
	ATOM	1334	HG	SER	A	91133.583	-3.278	7.284	1.00	0.00	H
	ATOM	1335	N	ARG	A	92137.285	-6.486	6.944	1.00	0.00	N

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	ATOM	1336	CA	ARG A	92137.756	-7.728	7.544	1.00	0.00	C
	ATOM	1337	C	ARG A	92137.792	-7.619	9.064	1.00	0.00	C
	ATOM	1338	O	ARG A	92137.609	-8.610	9.772	1.00	0.00	O
	ATOM	1339	CB	ARG A	92139.148	-8.079	7.013	1.00	0.00	C
5	ATOM	1340	CG	ARG A	92139.143	-8.589	5.580	1.00	0.00	C
	ATOM	1341	CD	ARG A	92139.469	-10.073	5.512	1.00	0.00	C
	ATOM	1342	NE	ARG A	92138.336	-10.902	5.917	1.00	0.00	N
	ATOM	1343	CZ	ARG A	92138.226	-12.197	5.630	1.00	0.00	C
	ATOM	1344	NH1	ARG A	92139.176	-12.813	4.938	1.00	0.00	N
10	ATOM	1345	NH2	ARG A	92137.162	-12.877	6.034	1.00	0.00	N
	ATOM	1346	H	ARG A	92137.907	-5.946	6.412	1.00	0.00	H
	ATOM	1347	HA	ARG A	92137.067	-8.511	7.267	1.00	0.00	H
	ATOM	1348	1HB	ARG A	92139.770	-7.197	7.057	1.00	0.00	H
	ATOM	1349	2HB	ARG A	92139.579	-8.843	7.644	1.00	0.00	H
15	ATOM	1350	1HG	ARG A	92138.163	-8.427	5.155	1.00	0.00	H
	ATOM	1351	2HG	ARG A	92139.879	-8.040	5.012	1.00	0.00	H
	ATOM	1352	1HD	ARG A	92139.739	-10.322	4.497	1.00	0.00	H
	ATOM	1353	2HD	ARG A	92140.303	-10.275	6.167	1.00	0.00	H
	ATOM	1354	HE	ARG A	92137.620	-10.471	6.430	1.00	0.00	H
20	ATOM	1355	1HH1	ARG A	92139.980	-12.307	4.629	1.00	0.00	H
	ATOM	1356	2HH1	ARG A	92139.088	-13.787	4.725	1.00	0.00	H
	ATOM	1357	1HH2	ARG A	92136.443	-12.418	6.556	1.00	0.00	H
	ATOM	1358	2HH2	ARG A	92137.079	-13.850	5.819	1.00	0.00	H
	ATOM	1359	N	PHE A	93138.031	-6.410	9.561	1.00	0.00	N
25	ATOM	1360	CA	PHE A	93138.092	-6.172	10.999	1.00	0.00	C
	ATOM	1361	C	PHE A	93136.976	-5.233	11.447	1.00	0.00	C
	ATOM	1362	O	PHE A	93137.114	-4.519	12.440	1.00	0.00	O
	ATOM	1363	CB	PHE A	93139.451	-5.583	11.381	1.00	0.00	C
	ATOM	1364	CG	PHE A	93140.586	-6.559	11.253	1.00	0.00	C



	ATOM	1365	CD1	PHE	A	93140.898	-7.122	10.026	1.00	0.00	C
	ATOM	1366	CD2	PHE	A	93141.340	-6.914	12.361	1.00	0.00	C
	ATOM	1367	CE1	PHE	A	93141.942	-8.020	9.905	1.00	0.00	C
	ATOM	1368	CE2	PHE	A	93142.385	-7.811	12.246	1.00	0.00	C
5	ATOM	1369	CZ	PHE	A	93142.686	-8.365	11.017	1.00	0.00	C
	ATOM	1370	H	PHE	A	93138.170	-5.659	8.947	1.00	0.00	H
	ATOM	1371	HA	PHE	A	93137.968	-7.122	11.497	1.00	0.00	H
	ATOM	1372	1HB	PHE	A	93139.664	-4.741	10.740	1.00	0.00	H
	ATOM	1373	2HB	PHE	A	93139.413	-5.248	12.407	1.00	0.00	H
10	ATOM	1374	HD1	PHE	A	93140.317	-6.853	9.156	1.00	0.00	H
	ATOM	1375	HD2	PHE	A	93141.105	-6.482	13.322	1.00	0.00	H
	ATOM	1376	HE1	PHE	A	93142.175	-8.451	8.944	1.00	0.00	H
	ATOM	1377	HE2	PHE	A	93142.965	-8.079	13.117	1.00	0.00	H
	ATOM	1378	HZ	PHE	A	93143.502	-9.066	10.925	1.00	0.00	H
15	ATOM	1379	N	ALA	A	94135.869	-5.238	10.710	1.00	0.00	N
	ATOM	1380	CA	ALA	A	94134.732	-4.386	11.038	1.00	0.00	C
	ATOM	1381	C	ALA	A	94133.628	-5.181	11.726	1.00	0.00	C
	ATOM	1382	O	ALA	A	94133.159	-6.193	11.204	1.00	0.00	O
	ATOM	1383	CB	ALA	A	94134.197	-3.716	9.780	1.00	0.00	C
20	ATOM	1384	H	ALA	A	94135.814	-5.829	9.930	1.00	0.00	H
	ATOM	1385	HA	ALA	A	94135.077	-3.614	11.709	1.00	0.00	H
	ATOM	1386	1HB	ALA	A	94133.322	-4.246	9.434	1.00	0.00	H
	ATOM	1387	2HB	ALA	A	94134.956	-3.732	9.013	1.00	0.00	H
	ATOM	1388	3HB	ALA	A	94133.932	-2.693	10.004	1.00	0.00	H
25	ATOM	1389	N	SER	A	95133.216	-4.717	12.902	1.00	0.00	N
	ATOM	1390	CA	SER	A	95132.167	-5.384	13.663	1.00	0.00	C
	ATOM	1391	C	SER	A	95130.804	-4.767	13.363	1.00	0.00	C
	ATOM	1392	O	SER	A	95130.659	-3.546	13.331	1.00	0.00	O
	ATOM	1393	CB	SER	A	95132.460	-5.298	15.162	1.00	0.00	C

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	ATOM	1394	OG	SER A	95133.403	-6.280	15.554	1.00	0.00	O
	ATOM	1395	H	SER A	95133.629	-3.905	13.266	1.00	0.00	H
	ATOM	1396	HA	SER A	95132.152	-6.422	13.366	1.00	0.00	H
	ATOM	1397	1HB	SER A	95132.860	-4.322	15.392	1.00	0.00	H
5	ATOM	1398	2HB	SER A	95131.546	-5.452	15.714	1.00	0.00	H
	ATOM	1399	HG	SER A	95132.941	-7.050	15.894	1.00	0.00	H
	ATOM	1400	N	LEU A	96129.809	-5.620	13.143	1.00	0.00	N
	ATOM	1401	CA	LEU A	96128.459	-5.157	12.847	1.00	0.00	C
	ATOM	1402	C	LEU A	96127.448	-6.288	13.000	1.00	0.00	C
10	ATOM	1403	O	LEU A	96127.601	-7.357	12.405	1.00	0.00	O
	ATOM	1404	CB	LEU A	96128.394	-4.589	11.428	1.00	0.00	C
	ATOM	1405	CG	LEU A	96127.019	-4.076	10.997	1.00	0.00	C
	ATOM	1406	CD1	LEU A	96126.635	-2.843	11.801	1.00	0.00	C
	ATOM	1407	CD2	LEU A	96127.009	-3.769	9.507	1.00	0.00	C
15	ATOM	1408	H	LEU A	96129.987	-6.583	13.183	1.00	0.00	H
	ATOM	1409	HA	LEU A	96128.215	-4.375	13.549	1.00	0.00	H
	ATOM	1410	1HB	LEU A	96129.099	-3.773	11.358	1.00	0.00	H
	ATOM	1411	2HB	LEU A	96128.696	-5.363	10.738	1.00	0.00	H
	ATOM	1412	HG	LEU A	96126.281	-4.841	11.187	1.00	0.00	H
20	ATOM	1413	1HD1	LEU A	96126.375	-3.136	12.807	1.00	0.00	H
	ATOM	1414	2HD1	LEU A	96125.788	-2.360	11.336	1.00	0.00	H
	ATOM	1415	3HD1	LEU A	96127.468	-2.157	11.829	1.00	0.00	H
	ATOM	1416	1HD2	LEU A	96127.887	-3.195	9.252	1.00	0.00	H
	ATOM	1417	2HD2	LEU A	96126.124	-3.200	9.263	1.00	0.00	H
25	ATOM	1418	3HD2	LEU A	96127.008	-4.693	8.949	1.00	0.00	H
	ATOM	1419	N	GLN A	97126.414	-6.047	13.800	1.00	0.00	N
	ATOM	1420	CA	GLN A	97125.375	-7.044	14.031	1.00	0.00	C
	ATOM	1421	C	GLN A	97124.046	-6.595	13.432	1.00	0.00	C
	ATOM	1422	O	GLN A	97123.770	-5.398	13.339	1.00	0.00	O

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	ATOM	1423	CB	GLN	A	97125.212	-7.303	15.529	1.00	0.00	C
	ATOM	1424	CG	GLN	A	97126.300	-8.185	16.117	1.00	0.00	C
	ATOM	1425	CD	GLN	A	97126.152	-9.640	15.720	1.00	0.00	C
	ATOM	1426	OE1	GLN	A	97125.213	-10.317	16.141	1.00	0.00	O
5	ATOM	1427	NE2	GLN	A	97127.077	-10.129	14.903	1.00	0.00	N
	ATOM	1428	H	GLN	A	97126.347	-5.176	14.244	1.00	0.00	H
	ATOM	1429	HA	GLN	A	97125.682	-7.961	13.548	1.00	0.00	H
	ATOM	1430	1HB	GLN	A	97125.225	-6.356	16.050	1.00	0.00	H
	ATOM	1431	2HB	GLN	A	97124.259	-7.784	15.699	1.00	0.00	H
10	ATOM	1432	1HG	GLN	A	97127.260	-7.830	15.771	1.00	0.00	H
	ATOM	1433	2HG	GLN	A	97126.260	-8.115	17.196	1.00	0.00	H
	ATOM	1434	1HE2	GLN	A	97127.796	-9.531	14.608	1.00	0.00	H
	ATOM	1435	2HE2	GLN	A	97127.005	-11.066	14.630	1.00	0.00	H
	ATOM	1436	N	PRO	A	98123.198	-7.552	13.015	1.00	0.00	N
15	ATOM	1437	CA	PRO	A	98121.892	-7.248	12.423	1.00	0.00	C
	ATOM	1438	C	PRO	A	98121.064	-6.310	13.296	1.00	0.00	C
	ATOM	1439	O	PRO	A	98121.520	-5.859	14.346	1.00	0.00	O
	ATOM	1440	CB	PRO	A	98121.218	-8.617	12.320	1.00	0.00	C
	ATOM	1441	CG	PRO	A	98122.345	-9.589	12.252	1.00	0.00	C
20	ATOM	1442	CD	PRO	A	98123.448	-9.004	13.089	1.00	0.00	C
	ATOM	1443	HA	PRO	A	98121.996	-6.819	11.436	1.00	0.00	H
	ATOM	1444	1HB	PRO	A	98120.603	-8.785	13.193	1.00	0.00	H
	ATOM	1445	2HB	PRO	A	98120.610	-8.657	11.430	1.00	0.00	H
	ATOM	1446	1HG	PRO	A	98122.033	-10.541	12.655	1.00	0.00	H
25	ATOM	1447	2HG	PRO	A	98122.671	-9.702	11.228	1.00	0.00	H
	ATOM	1448	1HD	PRO	A	98123.376	-9.356	14.108	1.00	0.00	H
	ATOM	1449	2HD	PRO	A	98124.412	-9.251	12.670	1.00	0.00	H
	ATOM	1450	N	SER	A	99119.844	-6.023	12.855	1.00	0.00	N
	ATOM	1451	CA	SER	A	99118.951	-5.140	13.597	1.00	0.00	C

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	ATOM	1452	C	SER A	99117.810	-5.928	14.232	1.00	0.00	C
	ATOM	1453	O	SER A	99117.697	-5.997	15.456	1.00	0.00	O
	ATOM	1454	CB	SER A	99118.386	-4.058	12.675	1.00	0.00	C
	ATOM	1455	OG	SER A	99118.327	-4.512	11.333	1.00	0.00	O
5	ATOM	1456	H	SER A	99119.535	-6.414	12.011	1.00	0.00	H
	ATOM	1457	HA	SER A	99119.527	-4.669	14.379	1.00	0.00	H
	ATOM	1458	1HB	SER A	99117.390	-3.797	12.997	1.00	0.00	H
	ATOM	1459	2HB	SER A	99119.020	-3.184	12.717	1.00	0.00	H
	ATOM	1460	HG	SER A	99118.412	-3.764	10.737	1.00	0.00	H
10	ATOM	1461	N	GLY A	100116.966	-6.519	13.393	1.00	0.00	N
	ATOM	1462	CA	GLY A	100115.846	-7.293	13.892	1.00	0.00	C
	ATOM	1463	C	GLY A	100114.524	-6.565	13.742	1.00	0.00	C
	ATOM	1464	O	GLY A	100114.144	-5.782	14.613	1.00	0.00	O
	ATOM	1465	H	GLY A	100117.107	-6.428	12.427	1.00	0.00	H
15	ATOM	1466	1HA	GLY A	100115.796	-8.225	13.347	1.00	0.00	H
	ATOM	1467	2HA	GLY A	100116.009	-7.509	14.937	1.00	0.00	H
	ATOM	1468	N	PRO A	101113.793	-6.802	12.638	1.00	0.00	N
	ATOM	1469	CA	PRO A	101112.500	-6.153	12.392	1.00	0.00	C
	ATOM	1470	C	PRO A	101111.553	-6.277	13.581	1.00	0.00	C
20	ATOM	1471	O	PRO A	101111.276	-7.378	14.055	1.00	0.00	O
	ATOM	1472	CB	PRO A	101111.946	-6.912	11.186	1.00	0.00	C
	ATOM	1473	CG	PRO A	101113.151	-7.427	10.478	1.00	0.00	C
	ATOM	1474	CD	PRO A	101114.167	-7.720	11.546	1.00	0.00	C
	ATOM	1475	HA	PRO A	101112.624	-5.110	12.139	1.00	0.00	H
25	ATOM	1476	1HB	PRO A	101111.311	-7.718	11.525	1.00	0.00	H
	ATOM	1477	2HB	PRO A	101111.380	-6.238	10.561	1.00	0.00	H
	ATOM	1478	1HG	PRO A	101112.901	-8.329	9.939	1.00	0.00	H
	ATOM	1479	2HG	PRO A	101113.526	-6.676	9.799	1.00	0.00	H
	ATOM	1480	1HD	PRO A	101114.093	-8.749	11.865	1.00	0.00	H

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	ATOM	1481	2HD	PRO A	101115.164	-7.505	11.188	1.00	0.00	H
	ATOM	1482	N	SER A	102111.061	-5.138	14.060	1.00	0.00	N
	ATOM	1483	CA	SER A	102110.144	-5.120	15.194	1.00	0.00	C
	ATOM	1484	C	SER A	102110.802	-5.719	16.434	1.00	0.00	C
5	ATOM	1485	O	SER A	102110.493	-6.842	16.831	1.00	0.00	O
	ATOM	1486	CB	SER A	102108.866	-5.890	14.857	1.00	0.00	C
	ATOM	1487	OG	SER A	102107.873	-5.024	14.333	1.00	0.00	O
	ATOM	1488	H	SER A	102111.319	-4.292	13.640	1.00	0.00	H
	ATOM	1489	HA	SER A	102109.891	-4.091	15.398	1.00	0.00	H
10	ATOM	1490	1HB	SER A	102109.088	-6.647	14.120	1.00	0.00	H
	ATOM	1491	2HB	SER A	102108.483	-6.358	15.752	1.00	0.00	H
	ATOM	1492	HG	SER A	102108.270	-4.434	13.690	1.00	0.00	H
	ATOM	1493	N	SER A	103111.709	-4.961	17.041	1.00	0.00	N
	ATOM	1494	CA	SER A	103112.410	-5.416	18.235	1.00	0.00	C
15	ATOM	1495	C	SER A	103111.554	-5.208	19.481	1.00	0.00	C
	ATOM	1496	O	SER A	103110.663	-4.359	19.498	1.00	0.00	O
	ATOM	1497	CB	SER A	103113.740	-4.676	18.385	1.00	0.00	C
	ATOM	1498	OG	SER A	103114.772	-5.329	17.666	1.00	0.00	O
	ATOM	1499	H	SER A	103111.912	-4.075	16.676	1.00	0.00	H
20	ATOM	1500	HA	SER A	103112.607	-6.472	18.121	1.00	0.00	H
	ATOM	1501	1HB	SER A	103113.634	-3.670	18.006	1.00	0.00	H
	ATOM	1502	2HB	SER A	103114.013	-4.638	19.430	1.00	0.00	H
	ATOM	1503	HG	SER A	103114.839	-6.240	17.960	1.00	0.00	H
	ATOM	1504	N	GLY A	104111.832	-5.986	20.520	1.00	0.00	N
25	ATOM	1505	CA	GLY A	104111.079	-5.871	21.756	1.00	0.00	C
	ATOM	1506	C	GLY A	104111.969	-5.896	22.983	1.00	0.00	C
	ATOM	1507	O	GLY A	104111.575	-6.523	23.989	1.00	0.00	O
	ATOM	1508	OXT	GLY A	104113.061	-5.291	22.937	1.00	0.00	O
	ATOM	1509	H	GLY A	104112.555	-6.645	20.449	1.00	0.00	H

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ATOM 1510 1HA GLY A 104110.529 -4.941 21.743 1.00 0.00 H

ATOM 1511 2HA GLY A 104110.379 -6.691 21.815 1.00 0.00 H

TER 1512 GLY A 104

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ATOM 1 N GLY A 1132.485 -2.135 -14.848 1.00 0.00 N

ATOM 2 CA GLY A 1133.474 -2.831 -13.979 1.00 0.00 C

ATOM 3 C GLY A 1133.260 -2.538 -12.507 1.00 0.00 C

10 ATOM 4 O GLY A 1133.286 -3.446 -11.676 1.00 0.00 O

ATOM 5 1H GLY A 1132.906 -1.268 -15.244 1.00 0.00 H

ATOM 6 2H GLY A 1131.643 -1.877 -14.296 1.00 0.00 H

ATOM 7 3H GLY A 1132.197 -2.756 -15.631 1.00 0.00 H

ATOM 8 1HA GLY A 1133.389 -3.896 -14.138 1.00 0.00 H

15 ATOM 9 2HA GLY A 1134.468 -2.515 -14.257 1.00 0.00 H

ATOM10 N SER A 2133.048 -1.266 -12.184 1.00 0.00 N

ATOM11 CA SER A 2132.829 -0.855 -10.803 1.00 0.00 C

ATOM12 C SER A 2131.367 -0.493 -10.568 1.00 0.00 C

ATOM13 O SER A 2130.763 0.238 -11.354 1.00 0.00 O

20 ATOM14 CB SER A 2133.723 0.338 -10.456 1.00 0.00 C

ATOM15 OG SER A 2133.256 1.523 -11.074 1.00 0.00 O

ATOM16 H SER A 2133.039 -0.588 -12.892 1.00 0.00 H

ATOM17 HA SER A 2133.089 -1.686 -10.164 1.00 0.00 H

ATOM18 1HB SER A 2133.727 0.483 -9.386 1.00 0.00 H

25 ATOM19 2HB SER A 2134.729 0.141 -10.795 1.00 0.00 H

ATOM20 HG SER A 2133.668 2.285 -10.661 1.00 0.00 H

ATOM21 N SER A 3130.801 -1.010 -9.482 1.00 0.00 N

ATOM22 CA SER A 3129.408 -0.742 -9.143 1.00 0.00 C

ATOM23 C SER A 3129.287 0.525 -8.303 1.00 0.00 C

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	ATOM24	O	SER A	3129.369	0.478	-7.076	1.00	0.00	O
	ATOM25	CB	SER A	3128.807	-1.928	-8.388	1.00	0.00	C
	ATOM26	OG	SER A	3127.458	-2.142	-8.764	1.00	0.00	O
	ATOM27	H	SER A	3131.334	-1.586	-8.893	1.00	0.00	H
5	ATOM28	HA	SER A	3128.865	-0.602	-10.066	1.00	0.00	H
	ATOM29	1HB	SER A	3129.375	-2.820	-8.612	1.00	0.00	H
	ATOM30	2HB	SER A	3128.847	-1.734	-7.326	1.00	0.00	H
	ATOM31	HG	SER A	3126.975	-1.313	-8.709	1.00	0.00	H
	ATOM32	N	GLY A	4129.091	1.657	-8.972	1.00	0.00	N
10	ATOM33	CA	GLY A	4128.962	2.919	-8.271	1.00	0.00	C
	ATOM34	C	GLY A	4128.420	4.023	-9.158	1.00	0.00	C
	ATOM35	O	GLY A	4128.458	3.918	-10.383	1.00	0.00	O
	ATOM36	H	GLY A	4129.035	1.633	-9.950	1.00	0.00	H
	ATOM37	1HA	GLY A	4128.293	2.787	-7.432	1.00	0.00	H
15	ATOM38	2HA	GLY A	4129.932	3.214	-7.901	1.00	0.00	H
	ATOM39	N	SER A	5127.915	5.084	-8.537	1.00	0.00	N
	ATOM40	CA	SER A	5127.362	6.212	-9.279	1.00	0.00	C
	ATOM41	C	SER A	5127.409	7.487	-8.444	1.00	0.00	C
	ATOM42	O	SER A	5127.856	8.534	-8.914	1.00	0.00	O
20	ATOM43	CB	SER A	5125.922	5.916	-9.699	1.00	0.00	C
	ATOM44	OG	SER A	5125.076	5.793	-8.569	1.00	0.00	O
	ATOM45	H	SER A	5127.913	5.110	-7.558	1.00	0.00	H
	ATOM46	HA	SER A	5127.964	6.353	-10.164	1.00	0.00	H
	ATOM47	1HB	SER A	5125.558	6.722	-10.319	1.00	0.00	H
25	ATOM48	2HB	SER A	5125.895	4.993	-10.258	1.00	0.00	H
	ATOM49	HG	SER A	5124.212	6.159	-8.774	1.00	0.00	H
	ATOM50	N	SER A	6126.945	7.394	-7.202	1.00	0.00	N
	ATOM51	CA	SER A	6126.933	8.540	-6.301	1.00	0.00	C
	ATOM52	C	SER A	6128.282	8.699	-5.606	1.00	0.00	C

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	ATOM53	O	SER A	6129.041	7.739	-5.475	1.00	0.00	O
	ATOM54	CB	SER A	6125.824	8.385	-5.259	1.00	0.00	C
	ATOM55	OG	SER A	6125.843	7.091	-4.683	1.00	0.00	O
	ATOM56	H	SER A	6126.601	6.532	-6.884	1.00	0.00	H
5	ATOM57	HA	SER A	6126.740	9.423	-6.892	1.00	0.00	H
	ATOM58	1HB	SER A	6125.965	9.115	-4.475	1.00	0.00	H
	ATOM59	2HB	SER A	6124.866	8.543	-5.731	1.00	0.00	H
	ATOM60	HG	SER A	6126.724	6.899	-4.353	1.00	0.00	H
	ATOM61	N	GLY A	7128.574	9.917	-5.163	1.00	0.00	N
10	ATOM62	CA	GLY A	7129.830	10.179	-4.487	1.00	0.00	C
	ATOM63	C	GLY A	7129.885	11.568	-3.882	1.00	0.00	C
	ATOM64	O	GLY A	7130.880	12.278	-4.029	1.00	0.00	O
	ATOM65	H	GLY A	7127.930	10.645	-5.297	1.00	0.00	H
	ATOM66	1HA	GLY A	7129.962	9.451	-3.702	1.00	0.00	H
15	ATOM67	2HA	GLY A	7130.637	10.078	-5.198	1.00	0.00	H
	ATOM68	N	LEU A	8128.813	11.957	-3.200	1.00	0.00	N
	ATOM69	CA	LEU A	8128.741	13.271	-2.570	1.00	0.00	C
	ATOM70	C	LEU A	8128.749	13.146	-1.050	1.00	0.00	C
	ATOM71	O	LEU A	8128.123	13.940	-0.349	1.00	0.00	O
20	ATOM72	CB	LEU A	8127.482	14.011	-3.026	1.00	0.00	C
	ATOM73	CG	LEU A	8127.632	14.802	-4.326	1.00	0.00	C
	ATOM74	CD1	LEU A	8126.291	14.925	-5.034	1.00	0.00	C
	ATOM75	CD2	LEU A	8128.217	16.179	-4.047	1.00	0.00	C
	ATOM76	H	LEU A	8128.050	11.347	-3.119	1.00	0.00	H
25	ATOM77	HA	LEU A	8129.610	13.834	-2.878	1.00	0.00	H
	ATOM78	1HB	LEU A	8126.692	13.286	-3.158	1.00	0.00	H
	ATOM79	2HB	LEU A	8127.190	14.697	-2.245	1.00	0.00	H
	ATOM80	HG	LEU A	8128.308	14.277	-4.983	1.00	0.00	H
	ATOM81	1HD1	LEU A	8126.239	15.875	-5.546	1.00	0.00	H



	ATOM82	2HD1	LEU	A	8125.493	14.863	-4.307	1.00	0.00	H	
	ATOM83	3HD1	LEU	A	8126.187	14.124	-5.750	1.00	0.00	H	
	ATOM84	1HD2	LEU	A	8127.824	16.888	-4.760	1.00	0.00	H	
	ATOM85	2HD2	LEU	A	8129.293	16.137	-4.136	1.00	0.00	H	
5	ATOM86	3HD2	LEU	A	8127.950	16.487	-3.047	1.00	0.00	H	
	ATOM87	N	ALA	A	9129.465	12.144	-0.548	1.00	0.00	N	
	ATOM88	CA	ALA	A	9129.555	11.916	0.889	1.00	0.00	C	
	ATOM89	C	ALA	A	9130.916	11.341	1.267	1.00	0.00	C	
	ATOM90	O	ALA	A	9131.007	10.386	2.039	1.00	0.00	O	
10	ATOM91	CB	ALA	A	9128.440	10.988	1.346	1.00	0.00	C	
	ATOM92	H	ALA	A	9129.942	11.546	-1.158	1.00	0.00	H	
	ATOM93	HA	ALA	A	9129.426	12.866	1.386	1.00	0.00	H	
	ATOM94	1HB	ALA	A	9128.296	11.095	2.411	1.00	0.00	H	
	ATOM95	2HB	ALA	A	9128.707	9.966	1.120	1.00	0.00	H	
15	ATOM96	3HB	ALA	A	9127.526	11.242	0.831	1.00	0.00	H	
	ATOM97	N	MET	A	10131.974	11.929	0.717	1.00	0.00	N	
	ATOM98	CA	MET	A	10133.332	11.475	0.996	1.00	0.00	C	
	ATOM99	C	MET	A	10134.283	12.661	1.158	1.00	0.00	C	
	ATOM	100	O	MET	A	10135.242	12.808	0.401	1.00	0.00	O
20	ATOM	101	CB	MET	A	10133.825	10.557	-0.127	1.00	0.00	C
	ATOM	102	CG	MET	A	10133.494	11.064	-1.523	1.00	0.00	C
	ATOM	103	SD	MET	A	10134.899	11.857	-2.329	1.00	0.00	S
	ATOM	104	CE	MET	A	10134.803	11.137	-3.965	1.00	0.00	C
	ATOM	105	H	MET	A	10131.838	12.686	0.109	1.00	0.00	H
25	ATOM	106	HA	MET	A	10133.311	10.918	1.920	1.00	0.00	H
	ATOM	107	1HB	MET	A	10134.897	10.458	-0.048	1.00	0.00	H
	ATOM	108	2HB	MET	A	10133.372	9.584	-0.004	1.00	0.00	H
	ATOM	109	1HG	MET	A	10133.178	10.227	-2.128	1.00	0.00	H
	ATOM	110	2HG	MET	A	10132.687	11.778	-1.452	1.00	0.00	H

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	ATOM	111	1HE	MET A	10135.673	11.424	-4.536	1.00	0.00	H
	ATOM	112	2HE	MET A	10133.912	11.489	-4.462	1.00	0.00	H
	ATOM	113	3HE	MET A	10134.767	10.060	-3.883	1.00	0.00	H
	ATOM	114	N	PRO A	11134.028	13.530	2.154	1.00	0.00	N
5	ATOM	115	CA	PRO A	11134.869	14.707	2.406	1.00	0.00	C
	ATOM	116	C	PRO A	11136.323	14.343	2.706	1.00	0.00	C
	ATOM	117	O	PRO A	11137.243	14.934	2.142	1.00	0.00	O
	ATOM	118	CB	PRO A	11134.223	15.370	3.629	1.00	0.00	C
	ATOM	119	CG	PRO A	11132.840	14.818	3.694	1.00	0.00	C
10	ATOM	120	CD	PRO A	11132.907	13.439	3.104	1.00	0.00	C
	ATOM	121	HA	PRO A	11134.841	15.391	1.570	1.00	0.00	H
	ATOM	122	1HB	PRO A	11134.789	15.125	4.514	1.00	0.00	H
	ATOM	123	2HB	PRO A	11134.212	16.441	3.492	1.00	0.00	H
	ATOM	124	1HG	PRO A	11132.515	14.768	4.723	1.00	0.00	H
15	ATOM	125	2HG	PRO A	11132.170	15.439	3.119	1.00	0.00	H
	ATOM	126	1HD	PRO A	11133.108	12.708	3.873	1.00	0.00	H
	ATOM	127	2HD	PRO A	11131.985	13.205	2.592	1.00	0.00	H
	ATOM	128	N	PRO A	12136.556	13.370	3.608	1.00	0.00	N
	ATOM	129	CA	PRO A	12137.907	12.949	3.978	1.00	0.00	C
20	ATOM	130	C	PRO A	12138.499	11.939	3.000	1.00	0.00	C
	ATOM	131	O	PRO A	12139.664	12.044	2.616	1.00	0.00	O
	ATOM	132	CB	PRO A	12137.694	12.306	5.345	1.00	0.00	C
	ATOM	133	CG	PRO A	12136.322	11.725	5.275	1.00	0.00	C
	ATOM	134	CD	PRO A	12135.527	12.609	4.344	1.00	0.00	C
25	ATOM	135	HA	PRO A	12138.574	13.792	4.073	1.00	0.00	H
	ATOM	136	1HB	PRO A	12138.441	11.543	5.507	1.00	0.00	H
	ATOM	137	2HB	PRO A	12137.765	13.059	6.116	1.00	0.00	H
	ATOM	138	1HG	PRO A	12136.371	10.720	4.885	1.00	0.00	H
	ATOM	139	2HG	PRO A	12135.876	11.724	6.259	1.00	0.00	H

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	ATOM	140	1HD	PRO	A	12134.939	12.007	3.668	1.00	0.00	H
	ATOM	141	2HD	PRO	A	12134.889	13.271	4.910	1.00	0.00	H
	ATOM	142	N	GLY	A	13137.695	10.958	2.605	1.00	0.00	N
	ATOM	143	CA	GLY	A	13138.165	9.942	1.680	1.00	0.00	C
5	ATOM	144	C	GLY	A	13137.387	9.927	0.380	1.00	0.00	C
	ATOM	145	O	GLY	A	13137.055	10.980	-0.165	1.00	0.00	O
	ATOM	146	H	GLY	A	13136.776	10.921	2.947	1.00	0.00	H
	ATOM	147	1HA	GLY	A	13139.206	10.126	1.460	1.00	0.00	H
	ATOM	148	2HA	GLY	A	13138.075	8.975	2.152	1.00	0.00	H
10	ATOM	149	N	ASN	A	14137.097	8.729	-0.117	1.00	0.00	N
	ATOM	150	CA	ASN	A	14136.354	8.576	-1.364	1.00	0.00	C
	ATOM	151	C	ASN	A	14135.392	7.395	-1.282	1.00	0.00	C
	ATOM	152	O	ASN	A	14135.721	6.353	-0.716	1.00	0.00	O
	ATOM	153	CB	ASN	A	14137.318	8.384	-2.536	1.00	0.00	C
15	ATOM	154	CG	ASN	A	14138.440	9.403	-2.536	1.00	0.00	C
	ATOM	155	OD1	ASN	A	14138.425	10.362	-3.307	1.00	0.00	O
	ATOM	156	ND2	ASN	A	14139.424	9.201	-1.666	1.00	0.00	N
	ATOM	157	H	ASN	A	14137.390	7.928	0.364	1.00	0.00	H
	ATOM	158	HA	ASN	A	14135.785	9.479	-1.523	1.00	0.00	H
20	ATOM	159	1HB	ASN	A	14137.753	7.397	-2.478	1.00	0.00	H
	ATOM	160	2HB	ASN	A	14136.771	8.478	-3.462	1.00	0.00	H
	ATOM	161	1HD2	ASN	A	14139.370	8.415	-1.082	1.00	0.00	H
	ATOM	162	2HD2	ASN	A	14140.162	9.844	-1.644	1.00	0.00	H
	ATOM	163	N	SER	A	15134.203	7.567	-1.851	1.00	0.00	N
25	ATOM	164	CA	SER	A	15133.189	6.517	-1.845	1.00	0.00	C
	ATOM	165	C	SER	A	15132.729	6.212	-0.422	1.00	0.00	C
	ATOM	166	O	SER	A	15131.666	6.664	0.007	1.00	0.00	O
	ATOM	167	CB	SER	A	15133.733	5.247	-2.504	1.00	0.00	C
	ATOM	168	OG	SER	A	15133.356	5.179	-3.869	1.00	0.00	O

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	ATOM	169	H	SER A	15134.001	8.422	-2.287	1.00	0.00	H
	ATOM	170	HA	SER A	15132.344	6.872	-2.414	1.00	0.00	H
	ATOM	171	1HB	SER A	15134.811	5.244	-2.442	1.00	0.00	H
	ATOM	172	2HB	SER A	15133.341	4.381	-1.991	1.00	0.00	H
5	ATOM	173	HG	SER A	15132.415	5.352	-3.950	1.00	0.00	H
	ATOM	174	N	HIS A	16133.533	5.445	0.306	1.00	0.00	N
	ATOM	175	CA	HIS A	16133.208	5.082	1.680	1.00	0.00	C
	ATOM	176	C	HIS A	16134.066	5.865	2.668	1.00	0.00	C
	ATOM	177	O	HIS A	16133.573	6.351	3.686	1.00	0.00	O
10	ATOM	178	CB	HIS A	16133.405	3.580	1.894	1.00	0.00	C
	ATOM	179	CG	HIS A	16132.249	2.752	1.423	1.00	0.00	C
	ATOM	180	ND1	HIS A	16131.753	1.680	2.135	1.00	0.00	N
	ATOM	181	CD2	HIS A	16131.490	2.843	0.305	1.00	0.00	C
	ATOM	182	CE1	HIS A	16130.739	1.148	1.475	1.00	0.00	C
15	ATOM	183	NE2	HIS A	16130.560	1.835	0.362	1.00	0.00	N
	ATOM	184	H	HIS A	16134.367	5.115	-0.090	1.00	0.00	H
	ATOM	185	HA	HIS A	16132.170	5.328	1.851	1.00	0.00	H
	ATOM	186	1HB	HIS A	16134.284	3.260	1.355	1.00	0.00	H
	ATOM	187	2HB	HIS A	16133.545	3.389	2.948	1.00	0.00	H
20	ATOM	188	HD1	HIS A	16132.093	1.357	2.995	1.00	0.00	H
	ATOM	189	HD2	HIS A	16131.598	3.573	-0.485	1.00	0.00	H
	ATOM	190	HE1	HIS A	16130.157	0.295	1.792	1.00	0.00	H
	ATOM	191	HE2	HIS A	16129.823	1.704	-0.270	1.00	0.00	H
	ATOM	192	N	GLY A	17135.354	5.982	2.360	1.00	0.00	N
25	ATOM	193	CA	GLY A	17136.261	6.707	3.230	1.00	0.00	C
	ATOM	194	C	GLY A	17137.602	6.015	3.375	1.00	0.00	C
	ATOM	195	O	GLY A	17138.004	5.653	4.481	1.00	0.00	O
	ATOM	196	H	GLY A	17135.690	5.574	1.536	1.00	0.00	H
	ATOM	197	1HA	GLY A	17136.421	7.695	2.823	1.00	0.00	H

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	ATOM	198	2HA	GLY A	17135.809	6.802	4.206	1.00	0.00	H
	ATOM	199	N	LEU A	18138.294	5.830	2.256	1.00	0.00	N
	ATOM	200	CA	LEU A	18139.598	5.176	2.264	1.00	0.00	C
	ATOM	201	C	LEU A	18140.706	6.174	2.579	1.00	0.00	C
5	ATOM	202	O	LEU A	18141.119	6.952	1.718	1.00	0.00	O
	ATOM	203	CB	LEU A	18139.865	4.509	0.913	1.00	0.00	C
	ATOM	204	CG	LEU A	18138.793	3.519	0.456	1.00	0.00	C
	ATOM	205	CD1	LEU A	18138.995	3.149	-1.004	1.00	0.00	C
	ATOM	206	CD2	LEU A	18138.812	2.274	1.330	1.00	0.00	C
10	ATOM	207	H	LEU A	18137.921	6.141	1.406	1.00	0.00	H
	ATOM	208	HA	LEU A	18139.583	4.418	3.032	1.00	0.00	H
	ATOM	209	1HB	LEU A	18139.953	5.284	0.165	1.00	0.00	H
	ATOM	210	2HB	LEU A	18140.806	3.983	0.975	1.00	0.00	H
	ATOM	211	HG	LEU A	18137.821	3.981	0.552	1.00	0.00	H
15	ATOM	212	1HD1	LEU A	18139.946	2.651	-1.122	1.00	0.00	H
	ATOM	213	2HD1	LEU A	18138.982	4.045	-1.608	1.00	0.00	H
	ATOM	214	3HD1	LEU A	18138.202	2.489	-1.322	1.00	0.00	H
	ATOM	215	1HD2	LEU A	18139.397	1.505	0.849	1.00	0.00	H
	ATOM	216	2HD2	LEU A	18137.802	1.920	1.475	1.00	0.00	H
20	ATOM	217	3HD2	LEU A	18139.250	2.513	2.288	1.00	0.00	H
	ATOM	218	N	GLU A	19141.185	6.148	3.819	1.00	0.00	N
	ATOM	219	CA	GLU A	19142.246	7.051	4.248	1.00	0.00	C
	ATOM	220	C	GLU A	19143.202	6.348	5.207	1.00	0.00	C
	ATOM	221	O	GLU A	19143.061	5.156	5.479	1.00	0.00	O
25	ATOM	222	CB	GLU A	19141.650	8.289	4.919	1.00	0.00	C
	ATOM	223	CG	GLU A	19140.820	7.972	6.152	1.00	0.00	C
	ATOM	224	CD	GLU A	19141.049	8.961	7.279	1.00	0.00	C
	ATOM	225	OE1	GLU A	19142.219	9.330	7.517	1.00	0.00	O
	ATOM	226	OE2	GLU A	19140.058	9.368	7.922	1.00	0.00	O

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	ATOM	227	H	GLU	A	19140.816	5.504	4.460	1.00	0.00	H
	ATOM	228	HA	GLU	A	19142.796	7.357	3.371	1.00	0.00	H
	ATOM	229	1HB	GLU	A	19142.455	8.948	5.212	1.00	0.00	H
	ATOM	230	2HB	GLU	A	19141.018	8.800	4.209	1.00	0.00	H
5	ATOM	231	1HG	GLU	A	19139.776	7.993	5.883	1.00	0.00	H
	ATOM	232	2HG	GLU	A	19141.081	6.984	6.502	1.00	0.00	H
	ATOM	233	N	VAL	A	20144.175	7.096	5.717	1.00	0.00	N
	ATOM	234	CA	VAL	A	20145.156	6.545	6.647	1.00	0.00	C
	ATOM	235	C	VAL	A	20144.476	5.973	7.886	1.00	0.00	C
10	ATOM	236	O	VAL	A	20143.563	6.582	8.443	1.00	0.00	O
	ATOM	237	CB	VAL	A	20146.178	7.612	7.081	1.00	0.00	C
	ATOM	238	CG1	VAL	A	20147.289	6.984	7.908	1.00	0.00	C
	ATOM	239	CG2	VAL	A	20146.748	8.330	5.868	1.00	0.00	C
	ATOM	240	H	VAL	A	20144.237	8.041	5.462	1.00	0.00	H
15	ATOM	241	HA	VAL	A	20145.687	5.753	6.139	1.00	0.00	H
	ATOM	242	HB	VAL	A	20145.670	8.340	7.697	1.00	0.00	H
	ATOM	243	1HG1	VAL	A	20146.955	6.867	8.929	1.00	0.00	H
	ATOM	244	2HG1	VAL	A	20148.160	7.622	7.885	1.00	0.00	H
	ATOM	245	3HG1	VAL	A	20147.539	6.017	7.499	1.00	0.00	H
20	ATOM	246	1HG2	VAL	A	20147.025	7.605	5.117	1.00	0.00	H
	ATOM	247	2HG2	VAL	A	20147.620	8.896	6.161	1.00	0.00	H
	ATOM	248	3HG2	VAL	A	20146.004	9.001	5.463	1.00	0.00	H
	ATOM	249	N	GLY	A	21144.928	4.797	8.312	1.00	0.00	N
	ATOM	250	CA	GLY	A	21144.352	4.163	9.482	1.00	0.00	C
25	ATOM	251	C	GLY	A	21143.278	3.154	9.125	1.00	0.00	C
	ATOM	252	O	GLY	A	21143.175	2.098	9.750	1.00	0.00	O
	ATOM	253	H	GLY	A	21145.658	4.358	7.827	1.00	0.00	H
	ATOM	254	1HA	GLY	A	21145.137	3.658	10.028	1.00	0.00	H
	ATOM	255	2HA	GLY	A	21143.920	4.923	10.116	1.00	0.00	H

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	ATOM	256	N	SER A	22142.474	3.480	8.118	1.00	0.00	N
	ATOM	257	CA	SER A	22141.402	2.595	7.678	1.00	0.00	C
	ATOM	258	C	SER A	22141.949	1.470	6.805	1.00	0.00	C
	ATOM	259	O	SER A	22142.939	1.645	6.095	1.00	0.00	O
5	ATOM	260	CB	SER A	22140.344	3.385	6.907	1.00	0.00	C
	ATOM	261	OG	SER A	22140.269	4.723	7.368	1.00	0.00	O
	ATOM	262	H	SER A	22142.606	4.335	7.659	1.00	0.00	H
	ATOM	263	HA	SER A	22140.947	2.164	8.556	1.00	0.00	H
	ATOM	264	1HB	SER A	22140.598	3.395	5.857	1.00	0.00	H
10	ATOM	265	2HB	SER A	22139.380	2.916	7.039	1.00	0.00	H
	ATOM	266	HG	SER A	22140.281	4.731	8.329	1.00	0.00	H
	ATOM	267	N	LEU A	23141.298	0.312	6.864	1.00	0.00	N
	ATOM	268	CA	LEU A	23141.719	-0.842	6.079	1.00	0.00	C
	ATOM	269	C	LEU A	23141.156	-0.772	4.664	1.00	0.00	C
15	ATOM	270	O	LEU A	23140.073	-0.229	4.441	1.00	0.00	O
	ATOM	271	CB	LEU A	23141.267	-2.138	6.756	1.00	0.00	C
	ATOM	272	CG	LEU A	23141.762	-2.325	8.192	1.00	0.00	C
	ATOM	273	CD1	LEU A	23140.763	-3.143	8.997	1.00	0.00	C
	ATOM	274	CD2	LEU A	23143.129	-2.990	8.201	1.00	0.00	C
20	ATOM	275	H	LEU A	23140.515	0.233	7.449	1.00	0.00	H
	ATOM	276	HA	LEU A	23142.797	-0.831	6.026	1.00	0.00	H
	ATOM	277	1HB	LEU A	23140.186	-2.158	6.763	1.00	0.00	H
	ATOM	278	2HB	LEU A	23141.622	-2.970	6.167	1.00	0.00	H
	ATOM	279	HG	LEU A	23141.855	-1.357	8.662	1.00	0.00	H
25	ATOM	280	1HD1	LEU A	23140.721	-2.765	10.008	1.00	0.00	H
	ATOM	281	2HD1	LEU A	23141.074	-4.177	9.012	1.00	0.00	H
	ATOM	282	3HD1	LEU A	23139.786	-3.066	8.544	1.00	0.00	H
	ATOM	283	1HD2	LEU A	23143.718	-2.591	9.013	1.00	0.00	H
	ATOM	284	2HD2	LEU A	23143.630	-2.796	7.264	1.00	0.00	H

	ATOM	285	3HD2	LEU	A	23143.010	-4.056	8.332	1.00	0.00	H
	ATOM	286	N	ALA	A	24141.896	-1.326	3.709	1.00	0.00	N
	ATOM	287	CA	ALA	A	24141.472	-1.326	2.314	1.00	0.00	C
	ATOM	288	C	ALA	A	24142.116	-2.474	1.545	1.00	0.00	C
5	ATOM	289	O	ALA	A	24143.252	-2.858	1.820	1.00	0.00	O
	ATOM	290	CB	ALA	A	24141.806	0.005	1.660	1.00	0.00	C
	ATOM	291	H	ALA	A	24142.750	-1.744	3.949	1.00	0.00	H
	ATOM	292	HA	ALA	A	24140.398	-1.451	2.294	1.00	0.00	H
	ATOM	293	1HB	ALA	A	24142.746	-0.079	1.134	1.00	0.00	H
10	ATOM	294	2HB	ALA	A	24141.884	0.770	2.419	1.00	0.00	H
	ATOM	295	3HB	ALA	A	24141.026	0.270	0.962	1.00	0.00	H
	ATOM	296	N	GLU	A	25141.383	-3.016	0.578	1.00	0.00	N
	ATOM	297	CA	GLU	A	25141.883	-4.121	-0.233	1.00	0.00	C
	ATOM	298	C	GLU	A	25142.149	-3.669	-1.665	1.00	0.00	C
15	ATOM	299	O	GLU	A	25141.544	-2.711	-2.146	1.00	0.00	O
	ATOM	300	CB	GLU	A	25140.883	-5.278	-0.229	1.00	0.00	C
	ATOM	301	CG	GLU	A	25141.402	-6.533	-0.912	1.00	0.00	C
	ATOM	302	CD	GLU	A	25140.359	-7.631	-0.983	1.00	0.00	C
	ATOM	303	OE1	GLU	A	25140.483	-8.511	-1.860	1.00	0.00	O
20	ATOM	304	OE2	GLU	A	25139.420	-7.612	-0.159	1.00	0.00	O
	ATOM	305	H	GLU	A	25140.484	-2.666	0.406	1.00	0.00	H
	ATOM	306	HA	GLU	A	25142.812	-4.458	0.203	1.00	0.00	H
	ATOM	307	1HB	GLU	A	25140.640	-5.526	0.794	1.00	0.00	H
	ATOM	308	2HB	GLU	A	25139.984	-4.963	-0.738	1.00	0.00	H
25	ATOM	309	1HG	GLU	A	25141.704	-6.281	-1.917	1.00	0.00	H
	ATOM	310	2HG	GLU	A	25142.255	-6.900	-0.362	1.00	0.00	H
	ATOM	311	N	VAL	A	26143.058	-4.363	-2.340	1.00	0.00	N
	ATOM	312	CA	VAL	A	26143.405	-4.034	-3.718	1.00	0.00	C
	ATOM	313	C	VAL	A	26143.016	-5.163	-4.667	1.00	0.00	C



	ATOM	314	O	VAL A	26142.958	-6.327	-4.272	1.00	0.00	O
	ATOM	315	CB	VAL A	26144.911	-3.750	-3.867	1.00	0.00	C
	ATOM	316	CG1	VAL A	26145.220	-3.217	-5.257	1.00	0.00	C
	ATOM	317	CG2	VAL A	26145.378	-2.775	-2.798	1.00	0.00	C
5	ATOM	318	H	VAL A	26143.507	-5.116	-1.903	1.00	0.00	H
	ATOM	319	HA	VAL A	26142.862	-3.141	-3.995	1.00	0.00	H
	ATOM	320	HB	VAL A	26145.446	-4.679	-3.735	1.00	0.00	H
	ATOM	321	1HG1	VAL A	26146.167	-2.698	-5.241	1.00	0.00	H
	ATOM	322	2HG1	VAL A	26144.441	-2.535	-5.563	1.00	0.00	H
10	ATOM	323	3HG1	VAL A	26145.272	-4.039	-5.955	1.00	0.00	H
	ATOM	324	1HG2	VAL A	26144.985	-3.076	-1.838	1.00	0.00	H
	ATOM	325	2HG2	VAL A	26145.026	-1.782	-3.036	1.00	0.00	H
	ATOM	326	3HG2	VAL A	26146.458	-2.773	-2.759	1.00	0.00	H
	ATOM	327	N	LYS A	27142.751	-4.810	-5.921	1.00	0.00	N
15	ATOM	328	CA	LYS A	27142.369	-5.793	-6.927	1.00	0.00	C
	ATOM	329	C	LYS A	27143.583	-6.248	-7.731	1.00	0.00	C
	ATOM	330	O	LYS A	27144.100	-5.507	-8.567	1.00	0.00	O
	ATOM	331	CB	LYS A	27141.311	-5.209	-7.865	1.00	0.00	C
	ATOM	332	CG	LYS A	27140.596	-6.257	-8.703	1.00	0.00	C
20	ATOM	333	CD	LYS A	27139.384	-5.672	-9.410	1.00	0.00	C
	ATOM	334	CE	LYS A	27139.017	-6.478	-10.646	1.00	0.00	C
	ATOM	335	NZ	LYS A	27137.542	-6.568	-10.832	1.00	0.00	N
	ATOM	336	H	LYS A	27142.815	-3.865	-6.176	1.00	0.00	H
	ATOM	337	HA	LYS A	27141.951	-6.647	-6.414	1.00	0.00	H
25	ATOM	338	1HB	LYS A	27140.573	-4.686	-7.276	1.00	0.00	H
	ATOM	339	2HB	LYS A	27141.787	-4.509	-8.535	1.00	0.00	H
	ATOM	340	1HG	LYS A	27141.280	-6.641	-9.443	1.00	0.00	H
	ATOM	341	2HG	LYS A	27140.271	-7.060	-8.057	1.00	0.00	H
	ATOM	342	1HD	LYS A	27138.545	-5.673	-8.729	1.00	0.00	H

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	ATOM	343	2HD	LYS	A	27139.607	-4.657	-9.707	1.00	0.00	H
	ATOM	344	1HE	LYS	A	27139.452	-6.003	-11.512	1.00	0.00	H
	ATOM	345	2HE	LYS	A	27139.419	-7.475	-10.542	1.00	0.00	H
	ATOM	346	1HZ	LYS	A	27137.058	-6.447	-9.919	1.00	0.00	H
5	ATOM	347	2HZ	LYS	A	27137.287	-7.496	-11.226	1.00	0.00	H
	ATOM	348	3HZ	LYS	A	27137.218	-5.825	-11.485	1.00	0.00	H
	ATOM	349	N	GLU	A	28144.031	-7.473	-7.475	1.00	0.00	N
	ATOM	350	CA	GLU	A	28145.184	-8.026	-8.174	1.00	0.00	C
	ATOM	351	C	GLU	A	28145.135	-9.551	-8.180	1.00	0.00	C
10	ATOM	352	O	GLU	A	28144.125	-10.152	-7.814	1.00	0.00	O
	ATOM	353	CB	GLU	A	28146.483	-7.545	-7.523	1.00	0.00	C
	ATOM	354	CG	GLU	A	28147.503	-7.017	-8.517	1.00	0.00	C
	ATOM	355	CD	GLU	A	28148.752	-7.873	-8.585	1.00	0.00	C
	ATOM	356	OE1	GLU	A	28149.528	-7.872	-7.606	1.00	0.00	O
15	ATOM	357	OE2	GLU	A	28148.955	-8.548	-9.617	1.00	0.00	O
	ATOM	358	H	GLU	A	28143.576	-8.016	-6.798	1.00	0.00	H
	ATOM	359	HA	GLU	A	28145.152	-7.674	-9.194	1.00	0.00	H
	ATOM	360	1HB	GLU	A	28146.249	-6.755	-6.824	1.00	0.00	H
	ATOM	361	2HB	GLU	A	28146.929	-8.368	-6.983	1.00	0.00	H
20	ATOM	362	1HG	GLU	A	28147.052	-6.989	-9.497	1.00	0.00	H
	ATOM	363	2HG	GLU	A	28147.786	-6.016	-8.224	1.00	0.00	H
	ATOM	364	N	ASN	A	29146.234	-10.172	-8.599	1.00	0.00	N
	ATOM	365	CA	ASN	A	29146.317	-11.626	-8.650	1.00	0.00	C
	ATOM	366	C	ASN	A	29146.467	-12.213	-7.249	1.00	0.00	C
25	ATOM	367	O	ASN	A	29145.645	-13.020	-6.814	1.00	0.00	O
	ATOM	368	CB	ASN	A	29147.493	-12.059	-9.529	1.00	0.00	C
	ATOM	369	CG	ASN	A	29147.063	-12.398	-10.943	1.00	0.00	C
	ATOM	370	OD1	ASN	A	29146.874	-13.566	-11.284	1.00	0.00	O
	ATOM	371	ND2	ASN	A	29146.907	-11.375	-11.776	1.00	0.00	N

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	ATOM	372	H	ASN A	29147.008	-9.638	-8.876	1.00	0.00	H
	ATOM	373	HA	ASN A	29145.400	-11.995	-9.085	1.00	0.00	H
	ATOM	374	1HB	ASN A	29148.214	-11.257	-9.576	1.00	0.00	H
	ATOM	375	2HB	ASN A	29147.958	-12.932	-9.095	1.00	0.00	H
5	ATOM	376	1HD2	ASN A	29147.076	-10.472	-11.435	1.00	0.00	H
	ATOM	377	2HD2	ASN A	29146.629	-11.566	-12.696	1.00	0.00	H
	ATOM	378	N	PRO A	30147.526	-11.816	-6.522	1.00	0.00	N
	ATOM	379	CA	PRO A	30147.782	-12.306	-5.166	1.00	0.00	C
	ATOM	380	C	PRO A	30146.884	-11.635	-4.126	1.00	0.00	C
10	ATOM	381	O	PRO A	30147.049	-10.453	-3.828	1.00	0.00	O
	ATOM	382	CB	PRO A	30149.243	-11.926	-4.932	1.00	0.00	C
	ATOM	383	CG	PRO A	30149.448	-10.704	-5.760	1.00	0.00	C
	ATOM	384	CD	PRO A	30148.557	-10.856	-6.965	1.00	0.00	C
	ATOM	385	HA	PRO A	30147.671	-13.378	-5.105	1.00	0.00	H
15	ATOM	386	1HB	PRO A	30149.403	-11.727	-3.883	1.00	0.00	H
	ATOM	387	2HB	PRO A	30149.884	-12.733	-5.255	1.00	0.00	H
	ATOM	388	1HG	PRO A	30149.166	-9.829	-5.194	1.00	0.00	H
	ATOM	389	2HG	PRO A	30150.482	-10.638	-6.064	1.00	0.00	H
	ATOM	390	1HD	PRO A	30148.113	-9.908	-7.225	1.00	0.00	H
20	ATOM	391	2HD	PRO A	30149.117	-11.252	-7.799	1.00	0.00	H
	ATOM	392	N	PRO A	31145.919	-12.382	-3.559	1.00	0.00	N
	ATOM	393	CA	PRO A	31145.001	-11.844	-2.550	1.00	0.00	C
	ATOM	394	C	PRO A	31145.700	-11.555	-1.226	1.00	0.00	C
	ATOM	395	O	PRO A	31146.226	-12.461	-0.579	1.00	0.00	O
25	ATOM	396	CB	PRO A	31143.968	-12.960	-2.376	1.00	0.00	C
	ATOM	397	CG	PRO A	31144.686	-14.204	-2.768	1.00	0.00	C
	ATOM	398	CD	PRO A	31145.648	-13.802	-3.851	1.00	0.00	C
	ATOM	399	HA	PRO A	31144.511	-10.946	-2.899	1.00	0.00	H
	ATOM	400	1HB	PRO A	31143.644	-12.996	-1.346	1.00	0.00	H

	ATOM	401	2HB	PRO	A	31143.121	-12.775	-3.019	1.00	0.00	H
	ATOM	402	1HG	PRO	A	31145.224	-14.600	-1.918	1.00	0.00	H
	ATOM	403	2HG	PRO	A	31143.982	-14.932	-3.142	1.00	0.00	H
	ATOM	404	1HD	PRO	A	31146.553	-14.388	-3.790	1.00	0.00	H
5	ATOM	405	2HD	PRO	A	31145.189	-13.914	-4.822	1.00	0.00	H
	ATOM	406	N	PHE	A	32145.703	-10.287	-0.828	1.00	0.00	N
	ATOM	407	CA	PHE	A	32146.338	-9.878	0.420	1.00	0.00	C
	ATOM	408	C	PHE	A	32145.479	-8.858	1.160	1.00	0.00	C
	ATOM	409	O	PHE	A	32144.591	-8.238	0.574	1.00	0.00	O
10	ATOM	410	CB	PHE	A	32147.723	-9.291	0.142	1.00	0.00	C
	ATOM	411	CG	PHE	A	32147.736	-8.287	-0.975	1.00	0.00	C
	ATOM	412	CD1	PHE	A	32148.424	-8.547	-2.150	1.00	0.00	C
	ATOM	413	CD2	PHE	A	32147.060	-7.083	-0.851	1.00	0.00	C
	ATOM	414	CE1	PHE	A	32148.438	-7.626	-3.180	1.00	0.00	C
15	ATOM	415	CE2	PHE	A	32147.070	-6.158	-1.878	1.00	0.00	C
	ATOM	416	CZ	PHE	A	32147.760	-6.429	-3.044	1.00	0.00	C
	ATOM	417	H	PHE	A	32145.267	-9.610	-1.386	1.00	0.00	H
	ATOM	418	HA	PHE	A	32146.447	-10.756	1.038	1.00	0.00	H
	ATOM	419	1HB	PHE	A	32148.083	-8.799	1.033	1.00	0.00	H
20	ATOM	420	2HB	PHE	A	32148.399	-10.090	-0.120	1.00	0.00	H
	ATOM	421	HD1	PHE	A	32148.955	-9.482	-2.257	1.00	0.00	H
	ATOM	422	HD2	PHE	A	32146.521	-6.871	0.060	1.00	0.00	H
	ATOM	423	HE1	PHE	A	32148.978	-7.839	-4.090	1.00	0.00	H
	ATOM	424	HE2	PHE	A	32146.540	-5.224	-1.769	1.00	0.00	H
25	ATOM	425	HZ	PHE	A	32147.770	-5.708	-3.847	1.00	0.00	H
	ATOM	426	N	TYR	A	33145.750	-8.690	2.450	1.00	0.00	N
	ATOM	427	CA	TYR	A	33145.001	-7.746	3.272	1.00	0.00	C
	ATOM	428	C	TYR	A	33145.945	-6.812	4.022	1.00	0.00	C
	ATOM	429	O	TYR	A	33146.943	-7.251	4.594	1.00	0.00	O

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	ATOM	430	CB	TYR	A	33144.109	-8.494	4.264	1.00	0.00	C
	ATOM	431	CG	TYR	A	33142.774	-8.908	3.687	1.00	0.00	C
	ATOM	432	CD1	TYR	A	33142.316	-10.213	3.813	1.00	0.00	C
	ATOM	433	CD2	TYR	A	33141.973	-7.993	3.014	1.00	0.00	C
5	ATOM	434	CE1	TYR	A	33141.097	-10.594	3.287	1.00	0.00	C
	ATOM	435	CE2	TYR	A	33140.752	-8.368	2.486	1.00	0.00	C
	ATOM	436	CZ	TYR	A	33140.319	-9.668	2.625	1.00	0.00	C
	ATOM	437	OH	TYR	A	33139.104	-10.045	2.099	1.00	0.00	O
	ATOM	438	H	TYR	A	33146.469	-9.214	2.860	1.00	0.00	H
10	ATOM	439	HA	TYR	A	33144.379	-7.156	2.615	1.00	0.00	H
	ATOM	440	1HB	TYR	A	33144.620	-9.387	4.592	1.00	0.00	H
	ATOM	441	2HB	TYR	A	33143.921	-7.859	5.117	1.00	0.00	H
	ATOM	442	HD1	TYR	A	33142.927	-10.935	4.333	1.00	0.00	H
	ATOM	443	HD2	TYR	A	33142.316	-6.975	2.907	1.00	0.00	H
15	ATOM	444	HE1	TYR	A	33140.757	-11.614	3.396	1.00	0.00	H
	ATOM	445	HE2	TYR	A	33140.144	-7.642	1.967	1.00	0.00	H
	ATOM	446	HH	TYR	A	33138.462	-10.131	2.807	1.00	0.00	H
	ATOM	447	N	GLY	A	34145.623	-5.522	4.016	1.00	0.00	N
	ATOM	448	CA	GLY	A	34146.453	-4.548	4.700	1.00	0.00	C
20	ATOM	449	C	GLY	A	34145.682	-3.302	5.091	1.00	0.00	C
	ATOM	450	O	GLY	A	34144.454	-3.272	5.009	1.00	0.00	O
	ATOM	451	H	GLY	A	34144.817	-5.230	3.543	1.00	0.00	H
	ATOM	452	1HA	GLY	A	34146.861	-5.001	5.591	1.00	0.00	H
	ATOM	453	2HA	GLY	A	34147.267	-4.264	4.049	1.00	0.00	H
25	ATOM	454	N	VAL	A	35146.405	-2.272	5.520	1.00	0.00	N
	ATOM	455	CA	VAL	A	35145.783	-1.018	5.927	1.00	0.00	C
	ATOM	456	C	VAL	A	35146.505	0.177	5.313	1.00	0.00	C
	ATOM	457	O	VAL	A	35147.721	0.150	5.125	1.00	0.00	O
	ATOM	458	CB	VAL	A	35145.769	-0.870	7.462	1.00	0.00	C

	ATOM	459	CG1	VAL	A	35147.188	-0.848	8.012	1.00	0.00	C
	ATOM	460	CG2	VAL	A	35145.010	0.383	7.873	1.00	0.00	C
	ATOM	461	H	VAL	A	35147.380	-2.359	5.565	1.00	0.00	H
	ATOM	462	HA	VAL	A	35144.760	-1.026	5.579	1.00	0.00	H
5	ATOM	463	HB	VAL	A	35145.261	-1.726	7.880	1.00	0.00	H
	ATOM	464	1HG1	VAL	A	35147.862	-1.287	7.291	1.00	0.00	H
	ATOM	465	2HG1	VAL	A	35147.226	-1.413	8.931	1.00	0.00	H
	ATOM	466	3HG1	VAL	A	35147.483	0.173	8.204	1.00	0.00	H
	ATOM	467	1HG2	VAL	A	35143.960	0.255	7.654	1.00	0.00	H
10	ATOM	468	2HG2	VAL	A	35145.392	1.231	7.324	1.00	0.00	H
	ATOM	469	3HG2	VAL	A	35145.140	0.551	8.931	1.00	0.00	H
	ATOM	470	N	ILE	A	36145.747	1.224	5.003	1.00	0.00	N
	ATOM	471	CA	ILE	A	36146.316	2.429	4.411	1.00	0.00	C
	ATOM	472	C	ILE	A	36147.242	3.136	5.395	1.00	0.00	C
15	ATOM	473	O	ILE	A	36146.961	3.200	6.592	1.00	0.00	O
	ATOM	474	CB	ILE	A	36145.216	3.410	3.960	1.00	0.00	C
	ATOM	475	CG1	ILE	A	36144.192	2.693	3.078	1.00	0.00	C
	ATOM	476	CG2	ILE	A	36145.828	4.590	3.218	1.00	0.00	C
	ATOM	477	CD1	ILE	A	36143.055	3.584	2.627	1.00	0.00	C
20	ATOM	478	H	ILE	A	36144.783	1.186	5.177	1.00	0.00	H
	ATOM	479	HA	ILE	A	36146.887	2.136	3.542	1.00	0.00	H
	ATOM	480	HB	ILE	A	36144.720	3.789	4.841	1.00	0.00	H
	ATOM	481	1HG1	ILE	A	36144.686	2.316	2.196	1.00	0.00	H
	ATOM	482	2HG1	ILE	A	36143.767	1.866	3.629	1.00	0.00	H
25	ATOM	483	1HG2	ILE	A	36146.782	4.299	2.805	1.00	0.00	H
	ATOM	484	2HG2	ILE	A	36145.968	5.413	3.903	1.00	0.00	H
	ATOM	485	3HG2	ILE	A	36145.168	4.894	2.420	1.00	0.00	H
	ATOM	486	1HD1	ILE	A	36143.454	4.434	2.094	1.00	0.00	H
	ATOM	487	2HD1	ILE	A	36142.502	3.928	3.489	1.00	0.00	H

	ATOM	488	3HD1	ILE	A	36142.397	3.027	1.976	1.00	0.00	H
	ATOM	489	N	ARG	A	37148.348	3.667	4.882	1.00	0.00	N
	ATOM	490	CA	ARG	A	37149.317	4.368	5.718	1.00	0.00	C
	ATOM	491	C	ARG	A	37149.519	5.800	5.231	1.00	0.00	C
5	ATOM	492	O	ARG	A	37149.161	6.756	5.921	1.00	0.00	O
	ATOM	493	CB	ARG	A	37150.653	3.625	5.718	1.00	0.00	C
	ATOM	494	CG	ARG	A	37150.520	2.138	6.004	1.00	0.00	C
	ATOM	495	CD	ARG	A	37150.448	1.861	7.496	1.00	0.00	C
	ATOM	496	NE	ARG	A	37149.225	2.391	8.094	1.00	0.00	N
10	ATOM	497	CZ	ARG	A	37149.068	2.601	9.399	1.00	0.00	C
	ATOM	498	NH1	ARG	A	37150.053	2.328	10.246	1.00	0.00	N
	ATOM	499	NH2	ARG	A	37147.924	3.087	9.859	1.00	0.00	N
	ATOM	500	H	ARG	A	37148.518	3.582	3.922	1.00	0.00	H
	ATOM	501	HA	ARG	A	37148.929	4.395	6.724	1.00	0.00	H
15	ATOM	502	1HB	ARG	A	37151.119	3.744	4.752	1.00	0.00	H
	ATOM	503	2HB	ARG	A	37151.293	4.058	6.473	1.00	0.00	H
	ATOM	504	1HG	ARG	A	37149.620	1.770	5.536	1.00	0.00	H
	ATOM	505	2HG	ARG	A	37151.376	1.624	5.592	1.00	0.00	H
	ATOM	506	1HD	ARG	A	37150.480	0.793	7.654	1.00	0.00	H
20	ATOM	507	2HD	ARG	A	37151.301	2.320	7.976	1.00	0.00	H
	ATOM	508	HE	ARG	A	37148.481	2.601	7.491	1.00	0.00	H
	ATOM	509	1HH1	ARG	A	37150.918	1.961	9.906	1.00	0.00	H
	ATOM	510	2HH1	ARG	A	37149.929	2.488	11.224	1.00	0.00	H
	ATOM	511	1HH2	ARG	A	37147.178	3.295	9.226	1.00	0.00	H
25	ATOM	512	2HH2	ARG	A	37147.805	3.245	10.839	1.00	0.00	H
	ATOM	513	N	TRP	A	38150.092	5.942	4.041	1.00	0.00	N
	ATOM	514	CA	TRP	A	38150.340	7.259	3.465	1.00	0.00	C
	ATOM	515	C	TRP	A	38149.621	7.414	2.128	1.00	0.00	C
	ATOM	516	O	TRP	A	38149.714	6.549	1.257	1.00	0.00	O

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	ATOM	517	CB	TRP	A	38151.845	7.487	3.282	1.00	0.00	C
	ATOM	518	CG	TRP	A	38152.172	8.692	2.450	1.00	0.00	C
	ATOM	519	CD1	TRP	A	38152.385	9.965	2.896	1.00	0.00	C
	ATOM	520	CD2	TRP	A	38152.315	8.736	1.025	1.00	0.00	C
5	ATOM	521	NE1	TRP	A	38152.652	10.798	1.836	1.00	0.00	N
	ATOM	522	CE2	TRP	A	38152.614	10.067	0.677	1.00	0.00	C
	ATOM	523	CE3	TRP	A	38152.218	7.779	0.011	1.00	0.00	C
	ATOM	524	CZ2	TRP	A	38152.818	10.462	-0.644	1.00	0.00	C
	ATOM	525	CZ3	TRP	A	38152.421	8.174	-1.298	1.00	0.00	C
10	ATOM	526	CH2	TRP	A	38152.718	9.504	-1.616	1.00	0.00	C
	ATOM	527	H	TRP	A	38150.355	5.143	3.538	1.00	0.00	H
	ATOM	528	HA	TRP	A	38149.956	7.998	4.152	1.00	0.00	H
	ATOM	529	1HB	TRP	A	38152.303	7.619	4.251	1.00	0.00	H
	ATOM	530	2HB	TRP	A	38152.276	6.622	2.800	1.00	0.00	H
15	ATOM	531	HD1	TRP	A	38152.347	10.260	3.934	1.00	0.00	H
	ATOM	532	HE1	TRP	A	38152.840	11.757	1.898	1.00	0.00	H
	ATOM	533	HE3	TRP	A	38151.989	6.750	0.236	1.00	0.00	H
	ATOM	534	HZ2	TRP	A	38153.045	11.485	-0.905	1.00	0.00	H
	ATOM	535	HZ3	TRP	A	38152.350	7.447	-2.094	1.00	0.00	H
20	ATOM	536	HH2	TRP	A	38152.868	9.767	-2.653	1.00	0.00	H
	ATOM	537	N	ILE	A	39148.914	8.527	1.971	1.00	0.00	N
	ATOM	538	CA	ILE	A	39148.186	8.807	0.740	1.00	0.00	C
	ATOM	539	C	ILE	A	39148.655	10.121	0.126	1.00	0.00	C
	ATOM	540	O	ILE	A	39148.335	11.200	0.627	1.00	0.00	O
25	ATOM	541	CB	ILE	A	39146.667	8.879	0.986	1.00	0.00	C
	ATOM	542	CG1	ILE	A	39146.190	7.640	1.748	1.00	0.00	C
	ATOM	543	CG2	ILE	A	39145.921	9.014	-0.333	1.00	0.00	C
	ATOM	544	CD1	ILE	A	39145.160	7.947	2.814	1.00	0.00	C
	ATOM	545	H	ILE	A	39148.886	9.181	2.700	1.00	0.00	H



	ATOM	546	HA	ILE A	39148.383	8.004	0.044	1.00	0.00	H
	ATOM	547	HB	ILE A	39146.462	9.757	1.578	1.00	0.00	H
	ATOM	548	1HG1	ILE A	39145.747	6.945	1.051	1.00	0.00	H
	ATOM	549	2HG1	ILE A	39147.036	7.172	2.228	1.00	0.00	H
5	ATOM	550	1HG2	ILE A	39146.587	9.412	-1.085	1.00	0.00	H
	ATOM	551	2HG2	ILE A	39145.082	9.681	-0.206	1.00	0.00	H
	ATOM	552	3HG2	ILE A	39145.564	8.044	-0.647	1.00	0.00	H
	ATOM	553	1HD1	ILE A	39145.546	8.705	3.479	1.00	0.00	H
	ATOM	554	2HD1	ILE A	39144.946	7.049	3.377	1.00	0.00	H
10	ATOM	555	3HD1	ILE A	39144.254	8.303	2.348	1.00	0.00	H
	ATOM	556	N	GLY A	40149.421	10.027	-0.956	1.00	0.00	N
	ATOM	557	CA	GLY A	40149.925	11.219	-1.610	1.00	0.00	C
	ATOM	558	C	GLY A	40150.479	10.940	-2.992	1.00	0.00	C
	ATOM	559	O	GLY A	40150.290	9.853	-3.539	1.00	0.00	O
15	ATOM	560	H	GLY A	40149.648	9.142	-1.310	1.00	0.00	H
	ATOM	561	1HA	GLY A	40149.122	11.936	-1.694	1.00	0.00	H
	ATOM	562	2HA	GLY A	40150.707	11.646	-1.001	1.00	0.00	H
	ATOM	563	N	GLN A	41151.164	11.928	-3.558	1.00	0.00	N
	ATOM	564	CA	GLN A	41151.749	11.795	-4.885	1.00	0.00	C
20	ATOM	565	C	GLN A	41153.233	12.162	-4.861	1.00	0.00	C
	ATOM	566	O	GLN A	41153.589	13.310	-4.593	1.00	0.00	O
	ATOM	567	CB	GLN A	41151.006	12.692	-5.874	1.00	0.00	C
	ATOM	568	CG	GLN A	41149.494	12.552	-5.804	1.00	0.00	C
	ATOM	569	CD	GLN A	41148.780	13.884	-5.930	1.00	0.00	C
25	ATOM	570	OE1	GLN A	41148.762	14.682	-4.993	1.00	0.00	O
	ATOM	571	NE2	GLN A	41148.187	14.129	-7.091	1.00	0.00	N
	ATOM	572	H	GLN A	41151.277	12.770	-3.071	1.00	0.00	H
	ATOM	573	HA	GLN A	41151.645	10.767	-5.196	1.00	0.00	H
	ATOM	574	1HB	GLN A	41151.260	13.721	-5.669	1.00	0.00	H

	ATOM	575	2HB	GLN	A	41151.324	12.446	-6.875	1.00	0.00	H
	ATOM	576	1HG	GLN	A	41149.166	11.910	-6.606	1.00	0.00	H
	ATOM	577	2HG	GLN	A	41149.230	12.107	-4.856	1.00	0.00	H
	ATOM	578	1HE2	GLN	A	41148.242	13.447	-7.792	1.00	0.00	H
5	ATOM	579	2HE2	GLN	A	41147.718	14.983	-7.200	1.00	0.00	H
	ATOM	580	N	PRO	A	42154.123	11.192	-5.140	1.00	0.00	N
	ATOM	581	CA	PRO	A	42155.571	11.431	-5.144	1.00	0.00	C
	ATOM	582	C	PRO	A	42155.970	12.538	-6.115	1.00	0.00	C
	ATOM	583	O	PRO	A	42155.226	12.862	-7.040	1.00	0.00	O
10	ATOM	584	CB	PRO	A	42156.160	10.089	-5.592	1.00	0.00	C
	ATOM	585	CG	PRO	A	42155.105	9.086	-5.277	1.00	0.00	C
	ATOM	586	CD	PRO	A	42153.796	9.795	-5.471	1.00	0.00	C
	ATOM	587	HA	PRO	A	42155.932	11.675	-4.156	1.00	0.00	H
	ATOM	588	1HB	PRO	A	42156.372	10.122	-6.650	1.00	0.00	H
15	ATOM	589	2HB	PRO	A	42157.068	9.891	-5.043	1.00	0.00	H
	ATOM	590	1HG	PRO	A	42155.182	8.247	-5.953	1.00	0.00	H
	ATOM	591	2HG	PRO	A	42155.204	8.755	-4.253	1.00	0.00	H
	ATOM	592	1HD	PRO	A	42153.468	9.707	-6.496	1.00	0.00	H
	ATOM	593	2HD	PRO	A	42153.049	9.403	-4.796	1.00	0.00	H
20	ATOM	594	N	PRO	A	43157.157	13.135	-5.916	1.00	0.00	N
	ATOM	595	CA	PRO	A	43157.653	14.210	-6.779	1.00	0.00	C
	ATOM	596	C	PRO	A	43158.072	13.701	-8.154	1.00	0.00	C
	ATOM	597	O	PRO	A	43159.237	13.372	-8.377	1.00	0.00	O
	ATOM	598	CB	PRO	A	43158.867	14.743	-6.019	1.00	0.00	C
25	ATOM	599	CG	PRO	A	43159.338	13.593	-5.199	1.00	0.00	C
	ATOM	600	CD	PRO	A	43158.107	12.807	-4.836	1.00	0.00	C
	ATOM	601	HA	PRO	A	43156.922	14.995	-6.894	1.00	0.00	H
	ATOM	602	1HB	PRO	A	43159.621	15.063	-6.722	1.00	0.00	H
	ATOM	603	2HB	PRO	A	43158.570	15.575	-5.398	1.00	0.00	H

	ATOM	604	1HG	PRO	A	43160.015	12.982	-5.778	1.00	0.00	H
	ATOM	605	2HG	PRO	A	43159.827	13.954	-4.306	1.00	0.00	H
	ATOM	606	1HD	PRO	A	43158.325	11.749	-4.822	1.00	0.00	H
	ATOM	607	2HD	PRO	A	43157.724	13.126	-3.877	1.00	0.00	H
5	ATOM	608	N	GLY	A	44157.115	13.641	-9.073	1.00	0.00	N
	ATOM	609	CA	GLY	A	44157.408	13.172	-10.414	1.00	0.00	C
	ATOM	610	C	GLY	A	44156.177	12.664	-11.134	1.00	0.00	C
	ATOM	611	O	GLY	A	44155.900	13.064	-12.265	1.00	0.00	O
	ATOM	612	H	GLY	A	44156.204	13.916	-8.839	1.00	0.00	H
10	ATOM	613	1HA	GLY	A	44157.832	13.986	-10.982	1.00	0.00	H
	ATOM	614	2HA	GLY	A	44158.132	12.374	-10.354	1.00	0.00	H
	ATOM	615	N	LEU	A	45155.434	11.777	-10.479	1.00	0.00	N
	ATOM	616	CA	LEU	A	45154.226	11.214	-11.068	1.00	0.00	C
	ATOM	617	C	LEU	A	45153.012	11.507	-10.196	1.00	0.00	C
15	ATOM	618	O	LEU	A	45152.895	10.989	-9.086	1.00	0.00	O
	ATOM	619	CB	LEU	A	45154.382	9.704	-11.255	1.00	0.00	C
	ATOM	620	CG	LEU	A	45154.896	8.948	-10.027	1.00	0.00	C
	ATOM	621	CD1	LEU	A	45154.503	7.479	-10.098	1.00	0.00	C
	ATOM	622	CD2	LEU	A	45156.407	9.097	-9.903	1.00	0.00	C
20	ATOM	623	H	LEU	A	45155.705	11.497	-9.578	1.00	0.00	H
	ATOM	624	HA	LEU	A	45154.080	11.674	-12.034	1.00	0.00	H
	ATOM	625	1HB	LEU	A	45153.420	9.294	-11.528	1.00	0.00	H
	ATOM	626	2HB	LEU	A	45155.071	9.532	-12.069	1.00	0.00	H
	ATOM	627	HG	LEU	A	45154.444	9.371	-9.141	1.00	0.00	H
25	ATOM	628	1HD1	LEU	A	45153.934	7.217	-9.218	1.00	0.00	H
	ATOM	629	2HD1	LEU	A	45155.393	6.869	-10.146	1.00	0.00	H
	ATOM	630	3HD1	LEU	A	45153.903	7.308	-10.979	1.00	0.00	H
	ATOM	631	1HD2	LEU	A	45156.882	8.155	-10.133	1.00	0.00	H
	ATOM	632	2HD2	LEU	A	45156.657	9.388	-8.893	1.00	0.00	H

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	ATOM	633	3HD2	LEU	A	45156.754	9.853	-10.591	1.00	0.00	H
	ATOM	634	N	ASN	A	46152.106	12.339	-10.702	1.00	0.00	N
	ATOM	635	CA	ASN	A	46150.905	12.688	-9.956	1.00	0.00	C
	ATOM	636	C	ASN	A	46149.929	11.517	-9.931	1.00	0.00	C
5	ATOM	637	O	ASN	A	46149.305	11.193	-10.942	1.00	0.00	O
	ATOM	638	CB	ASN	A	46150.233	13.914	-10.577	1.00	0.00	C
	ATOM	639	CG	ASN	A	46149.461	14.730	-9.558	1.00	0.00	C
	ATOM	640	OD1	ASN	A	46150.024	15.208	-8.573	1.00	0.00	O
	ATOM	641	ND2	ASN	A	46148.164	14.891	-9.790	1.00	0.00	N
10	ATOM	642	H	ASN	A	46152.249	12.722	-11.592	1.00	0.00	H
	ATOM	643	HA	ASN	A	46151.197	12.921	-8.943	1.00	0.00	H
	ATOM	644	1HB	ASN	A	46150.990	14.547	-11.017	1.00	0.00	H
	ATOM	645	2HB	ASN	A	46149.548	13.590	-11.346	1.00	0.00	H
	ATOM	646	1HD2	ASN	A	46147.782	14.480	-10.594	1.00	0.00	H
15	ATOM	647	2HD2	ASN	A	46147.640	15.414	-9.148	1.00	0.00	H
	ATOM	648	N	GLU	A	47149.803	10.889	-8.768	1.00	0.00	N
	ATOM	649	CA	GLU	A	47148.906	9.754	-8.603	1.00	0.00	C
	ATOM	650	C	GLU	A	47148.706	9.434	-7.126	1.00	0.00	C
	ATOM	651	O	GLU	A	47149.665	9.143	-6.412	1.00	0.00	O
20	ATOM	652	CB	GLU	A	47149.452	8.526	-9.334	1.00	0.00	C
	ATOM	653	CG	GLU	A	47150.963	8.373	-9.232	1.00	0.00	C
	ATOM	654	CD	GLU	A	47151.518	7.390	-10.243	1.00	0.00	C
	ATOM	655	OE1	GLU	A	47151.557	7.732	-11.444	1.00	0.00	O
	ATOM	656	OE2	GLU	A	47151.914	6.278	-9.835	1.00	0.00	O
25	ATOM	657	H	GLU	A	47150.329	11.196	-8.002	1.00	0.00	H
	ATOM	658	HA	GLU	A	47147.951	10.022	-9.033	1.00	0.00	H
	ATOM	659	1HB	GLU	A	47148.996	7.640	-8.917	1.00	0.00	H
	ATOM	660	2HB	GLU	A	47149.189	8.596	-10.379	1.00	0.00	H
	ATOM	661	1HG	GLU	A	47151.419	9.337	-9.401	1.00	0.00	H

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	ATOM	662	2HG	GLU A	47151.213	8.027	-8.240	1.00	0.00	H
	ATOM	663	N	VAL A	48147.460	9.485	-6.673	1.00	0.00	N
	ATOM	664	CA	VAL A	48147.149	9.192	-5.280	1.00	0.00	C
	ATOM	665	C	VAL A	48147.473	7.740	-4.951	1.00	0.00	C
5	ATOM	666	O	VAL A	48146.697	6.836	-5.256	1.00	0.00	O
	ATOM	667	CB	VAL A	48145.667	9.463	-4.963	1.00	0.00	C
	ATOM	668	CG1	VAL A	48145.413	9.366	-3.467	1.00	0.00	C
	ATOM	669	CG2	VAL A	48145.247	10.826	-5.495	1.00	0.00	C
	ATOM	670	H	VAL A	48146.733	9.719	-7.288	1.00	0.00	H
10	ATOM	671	HA	VAL A	48147.756	9.837	-4.660	1.00	0.00	H
	ATOM	672	HB	VAL A	48145.070	8.709	-5.456	1.00	0.00	H
	ATOM	673	1HG1	VAL A	48146.110	10.003	-2.942	1.00	0.00	H
	ATOM	674	2HG1	VAL A	48145.547	8.344	-3.145	1.00	0.00	H
	ATOM	675	3HG1	VAL A	48144.403	9.683	-3.252	1.00	0.00	H
15	ATOM	676	1HG2	VAL A	48146.102	11.483	-5.515	1.00	0.00	H
	ATOM	677	2HG2	VAL A	48144.486	11.244	-4.852	1.00	0.00	H
	ATOM	678	3HG2	VAL A	48144.853	10.716	-6.494	1.00	0.00	H
	ATOM	679	N	LEU A	49148.628	7.523	-4.329	1.00	0.00	N
	ATOM	680	CA	LEU A	49149.056	6.179	-3.963	1.00	0.00	C
20	ATOM	681	C	LEU A	49148.967	5.975	-2.457	1.00	0.00	C
	ATOM	682	O	LEU A	49149.649	6.651	-1.687	1.00	0.00	O
	ATOM	683	CB	LEU A	49150.488	5.931	-4.439	1.00	0.00	C
	ATOM	684	CG	LEU A	49150.689	6.006	-5.954	1.00	0.00	C
	ATOM	685	CD1	LEU A	49152.159	6.205	-6.288	1.00	0.00	C
25	ATOM	686	CD2	LEU A	49150.153	4.752	-6.626	1.00	0.00	C
	ATOM	687	H	LEU A	49149.206	8.286	-4.112	1.00	0.00	H
	ATOM	688	HA	LEU A	49148.397	5.477	-4.449	1.00	0.00	H
	ATOM	689	1HB	LEU A	49151.133	6.662	-3.974	1.00	0.00	H
	ATOM	690	2HB	LEU A	49150.789	4.948	-4.109	1.00	0.00	H

	ATOM	691	HG	LEU	A	49150.142	6.855	-6.341	1.00	0.00	H
	ATOM	692	1HD1	LEU	A	49152.669	5.254	-6.248	1.00	0.00	H
	ATOM	693	2HD1	LEU	A	49152.603	6.881	-5.572	1.00	0.00	H
	ATOM	694	3HD1	LEU	A	49152.250	6.621	-7.280	1.00	0.00	H
5	ATOM	695	1HD2	LEU	A	49149.135	4.922	-6.945	1.00	0.00	H
	ATOM	696	2HD2	LEU	A	49150.178	3.930	-5.926	1.00	0.00	H
	ATOM	697	3HD2	LEU	A	49150.763	4.513	-7.483	1.00	0.00	H
	ATOM	698	N	ALA	A	50148.121	5.041	-2.041	1.00	0.00	N
	ATOM	699	CA	ALA	A	50147.945	4.752	-0.626	1.00	0.00	C
10	ATOM	700	C	ALA	A	50148.882	3.638	-0.173	1.00	0.00	C
	ATOM	701	O	ALA	A	50148.766	2.496	-0.616	1.00	0.00	O
	ATOM	702	CB	ALA	A	50146.498	4.377	-0.339	1.00	0.00	C
	ATOM	703	H	ALA	A	50147.603	4.535	-2.702	1.00	0.00	H
	ATOM	704	HA	ALA	A	50148.175	5.652	-0.075	1.00	0.00	H
15	ATOM	705	1HB	ALA	A	50146.198	4.799	0.610	1.00	0.00	H
	ATOM	706	2HB	ALA	A	50146.406	3.303	-0.300	1.00	0.00	H
	ATOM	707	3HB	ALA	A	50145.864	4.766	-1.122	1.00	0.00	H
	ATOM	708	N	GLY	A	51149.813	3.979	0.712	1.00	0.00	N
	ATOM	709	CA	GLY	A	51150.760	2.998	1.211	1.00	0.00	C
20	ATOM	710	C	GLY	A	51150.106	1.965	2.109	1.00	0.00	C
	ATOM	711	O	GLY	A	51149.797	2.248	3.266	1.00	0.00	O
	ATOM	712	H	GLY	A	51149.860	4.905	1.030	1.00	0.00	H
	ATOM	713	1HA	GLY	A	51151.212	2.492	0.370	1.00	0.00	H
	ATOM	714	2HA	GLY	A	51151.530	3.507	1.769	1.00	0.00	H
25	ATOM	715	N	LEU	A	52149.894	0.768	1.575	1.00	0.00	N
	ATOM	716	CA	LEU	A	52149.273	-0.310	2.338	1.00	0.00	C
	ATOM	717	C	LEU	A	52150.326	-1.142	3.061	1.00	0.00	C
	ATOM	718	O	LEU	A	52151.468	-1.243	2.613	1.00	0.00	O
	ATOM	719	CB	LEU	A	52148.444	-1.205	1.414	1.00	0.00	C

	ATOM	720	CG	LEU	A	52147.167	-0.566	0.868	1.00	0.00	C
	ATOM	721	CD1	LEU	A	52146.575	-1.421	-0.242	1.00	0.00	C
	ATOM	722	CD2	LEU	A	52146.154	-0.361	1.984	1.00	0.00	C
	ATOM	723	H	LEU	A	52150.162	0.603	0.647	1.00	0.00	H
5	ATOM	724	HA	LEU	A	52148.619	0.139	3.071	1.00	0.00	H
	ATOM	725	1HB	LEU	A	52149.064	-1.496	0.579	1.00	0.00	H
	ATOM	726	2HB	LEU	A	52148.168	-2.094	1.963	1.00	0.00	H
	ATOM	727	HG	LEU	A	52147.407	0.402	0.450	1.00	0.00	H
	ATOM	728	1HD1	LEU	A	52146.553	-2.454	0.074	1.00	0.00	H
10	ATOM	729	2HD1	LEU	A	52147.181	-1.330	-1.131	1.00	0.00	H
	ATOM	730	3HD1	LEU	A	52145.569	-1.089	-0.455	1.00	0.00	H
	ATOM	731	1HD2	LEU	A	52145.155	-0.488	1.591	1.00	0.00	H
	ATOM	732	2HD2	LEU	A	52146.258	0.636	2.386	1.00	0.00	H
	ATOM	733	3HD2	LEU	A	52146.329	-1.085	2.765	1.00	0.00	H
15	ATOM	734	N	GLU	A	53149.934	-1.737	4.184	1.00	0.00	N
	ATOM	735	CA	GLU	A	53150.845	-2.562	4.970	1.00	0.00	C
	ATOM	736	C	GLU	A	53150.352	-4.005	5.036	1.00	0.00	C
	ATOM	737	O	GLU	A	53149.404	-4.315	5.758	1.00	0.00	O
	ATOM	738	CB	GLU	A	53150.988	-1.995	6.383	1.00	0.00	C
20	ATOM	739	CG	GLU	A	53151.949	-2.780	7.260	1.00	0.00	C
	ATOM	740	CD	GLU	A	53151.396	-3.037	8.648	1.00	0.00	C
	ATOM	741	OE1	GLU	A	53150.544	-2.245	9.104	1.00	0.00	O
	ATOM	742	OE2	GLU	A	53151.814	-4.030	9.281	1.00	0.00	O
	ATOM	743	H	GLU	A	53149.011	-1.619	4.490	1.00	0.00	H
25	ATOM	744	HA	GLU	A	53151.809	-2.545	4.486	1.00	0.00	H
	ATOM	745	1HB	GLU	A	53151.345	-0.977	6.317	1.00	0.00	H
	ATOM	746	2HB	GLU	A	53150.018	-1.995	6.859	1.00	0.00	H
	ATOM	747	1HG	GLU	A	53152.150	-3.732	6.789	1.00	0.00	H
	ATOM	748	2HG	GLU	A	53152.870	-2.223	7.353	1.00	0.00	H

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	ATOM	749	N	LEU	A	54151.002	-4.881	4.279	1.00	0.00	N
	ATOM	750	CA	LEU	A	54150.631	-6.290	4.251	1.00	0.00	C
	ATOM	751	C	LEU	A	54150.942	-6.961	5.585	1.00	0.00	C
	ATOM	752	O	LEU	A	54152.009	-6.752	6.162	1.00	0.00	O
5	ATOM	753	CB	LEU	A	54151.366	-7.013	3.120	1.00	0.00	C
	ATOM	754	CG	LEU	A	54151.264	-6.341	1.750	1.00	0.00	C
	ATOM	755	CD1	LEU	A	54152.286	-6.930	0.790	1.00	0.00	C
	ATOM	756	CD2	LEU	A	54149.857	-6.487	1.190	1.00	0.00	C
	ATOM	757	H	LEU	A	54151.750	-4.573	3.725	1.00	0.00	H
10	ATOM	758	HA	LEU	A	54149.568	-6.349	4.072	1.00	0.00	H
	ATOM	759	1HB	LEU	A	54152.412	-7.083	3.386	1.00	0.00	H
	ATOM	760	2HB	LEU	A	54150.965	-8.011	3.037	1.00	0.00	H
	ATOM	761	HG	LEU	A	54151.475	-5.287	1.856	1.00	0.00	H
	ATOM	762	1HD1	LEU	A	54153.278	-6.623	1.087	1.00	0.00	H
15	ATOM	763	2HD1	LEU	A	54152.086	-6.576	-0.211	1.00	0.00	H
	ATOM	764	3HD1	LEU	A	54152.221	-8.007	0.810	1.00	0.00	H
	ATOM	765	1HD2	LEU	A	54149.404	-7.383	1.586	1.00	0.00	H
	ATOM	766	2HD2	LEU	A	54149.904	-6.554	0.112	1.00	0.00	H
	ATOM	767	3HD2	LEU	A	54149.266	-5.628	1.472	1.00	0.00	H
20	ATOM	768	N	GLU	A	55150.004	-7.769	6.069	1.00	0.00	N
	ATOM	769	CA	GLU	A	55150.179	-8.471	7.335	1.00	0.00	C
	ATOM	770	C	GLU	A	55151.238	-9.562	7.211	1.00	0.00	C
	ATOM	771	O	GLU	A	55151.998	-9.812	8.146	1.00	0.00	O
	ATOM	772	CB	GLU	A	55148.852	-9.081	7.792	1.00	0.00	C
25	ATOM	773	CG	GLU	A	55147.840	-8.051	8.264	1.00	0.00	C
	ATOM	774	CD	GLU	A	55146.466	-8.647	8.494	1.00	0.00	C
	ATOM	775	OE1	GLU	A	55146.189	-9.080	9.633	1.00	0.00	O
	ATOM	776	OE2	GLU	A	55145.665	-8.681	7.536	1.00	0.00	O
	ATOM	777	H	GLU	A	55149.175	-7.896	5.562	1.00	0.00	H



	ATOM	778	HA	GLU A	55150.505	-7.751	8.071	1.00	0.00	H
	ATOM	779	1HB	GLU A	55148.419	-9.629	6.968	1.00	0.00	H
	ATOM	780	2HB	GLU A	55149.045	-9.764	8.605	1.00	0.00	H
	ATOM	781	1HG	GLU A	55148.188	-7.621	9.191	1.00	0.00	H
5	ATOM	782	2HG	GLU A	55147.759	-7.275	7.516	1.00	0.00	H
	ATOM	783	N	ASP A	56151.281	-10.208	6.050	1.00	0.00	N
	ATOM	784	CA	ASP A	56152.247	-11.271	5.804	1.00	0.00	C
	ATOM	785	C	ASP A	56153.564	-10.701	5.286	1.00	0.00	C
	ATOM	786	O	ASP A	56153.588	-9.960	4.303	1.00	0.00	O
10	ATOM	787	CB	ASP A	56151.682	-12.279	4.800	1.00	0.00	C
	ATOM	788	CG	ASP A	56151.146	-13.527	5.473	1.00	0.00	C
	ATOM	789	OD1	ASP A	56151.658	-14.628	5.177	1.00	0.00	O
	ATOM	790	OD2	ASP A	56150.215	-13.404	6.297	1.00	0.00	O
	ATOM	791	H	ASP A	56150.649	-9.963	5.342	1.00	0.00	H
15	ATOM	792	HA	ASP A	56152.431	-11.775	6.741	1.00	0.00	H
	ATOM	793	1HB	ASP A	56150.877	-11.816	4.249	1.00	0.00	H
	ATOM	794	2HB	ASP A	56152.463	-12.571	4.112	1.00	0.00	H
	ATOM	795	N	GLU A	57154.658	-11.051	5.955	1.00	0.00	N
	ATOM	796	CA	GLU A	57155.979	-10.573	5.561	1.00	0.00	C
20	ATOM	797	C	GLU A	57156.430	-11.230	4.261	1.00	0.00	C
	ATOM	798	O	GLU A	57157.105	-12.259	4.276	1.00	0.00	O
	ATOM	799	CB	GLU A	57156.996	-10.855	6.669	1.00	0.00	C
	ATOM	800	CG	GLU A	57156.796	-10.001	7.910	1.00	0.00	C
	ATOM	801	CD	GLU A	57156.996	-10.782	9.194	1.00	0.00	C
25	ATOM	802	OE1	GLU A	57157.428	-10.176	10.197	1.00	0.00	O
	ATOM	803	OE2	GLU A	57156.719	-12.000	9.197	1.00	0.00	O
	ATOM	804	H	GLU A	57154.576	-11.644	6.730	1.00	0.00	H
	ATOM	805	HA	GLU A	57155.913	-9.507	5.409	1.00	0.00	H
	ATOM	806	1HB	GLU A	57156.919	-11.893	6.957	1.00	0.00	H

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	ATOM	807	2HB	GLU	A	57157.988	-10.669	6.287	1.00	0.00	H
	ATOM	808	1HG	GLU	A	57157.505	-9.187	7.890	1.00	0.00	H
	ATOM	809	2HG	GLU	A	57155.792	-9.603	7.900	1.00	0.00	H
	ATOM	810	N	CYS	A	58156.053	-10.627	3.138	1.00	0.00	N
5	ATOM	811	CA	CYS	A	58156.420	-11.154	1.829	1.00	0.00	C
	ATOM	812	C	CYS	A	58157.732	-10.544	1.345	1.00	0.00	C
	ATOM	813	O	CYS	A	58157.972	-9.349	1.513	1.00	0.00	O
	ATOM	814	CB	CYS	A	58155.309	-10.874	0.814	1.00	0.00	C
	ATOM	815	SG	CYS	A	58153.948	-12.062	0.864	1.00	0.00	S
10	ATOM	816	H	CYS	A	58155.515	-9.810	3.192	1.00	0.00	H
	ATOM	817	HA	CYS	A	58156.546	-12.221	1.924	1.00	0.00	H
	ATOM	818	1HB	CYS	A	58154.897	-9.894	1.005	1.00	0.00	H
	ATOM	819	2HB	CYS	A	58155.729	-10.894	-0.181	1.00	0.00	H
	ATOM	820	HG	CYS	A	58154.203	-12.781	1.445	1.00	0.00	H
15	ATOM	821	N	ALA	A	59158.577	-11.375	0.745	1.00	0.00	N
	ATOM	822	CA	ALA	A	59159.865	-10.917	0.236	1.00	0.00	C
	ATOM	823	C	ALA	A	59159.687	-10.014	-0.978	1.00	0.00	C
	ATOM	824	O	ALA	A	59158.952	-10.344	-1.908	1.00	0.00	O
	ATOM	825	CB	ALA	A	59160.746	-12.107	-0.115	1.00	0.00	C
20	ATOM	826	H	ALA	A	59158.330	-12.317	0.640	1.00	0.00	H
	ATOM	827	HA	ALA	A	59160.353	-10.358	1.021	1.00	0.00	H
	ATOM	828	1HB	ALA	A	59161.002	-12.643	0.787	1.00	0.00	H
	ATOM	829	2HB	ALA	A	59161.648	-11.758	-0.595	1.00	0.00	H
	ATOM	830	3HB	ALA	A	59160.213	-12.765	-0.786	1.00	0.00	H
25	ATOM	831	N	GLY	A	60160.363	-8.869	-0.962	1.00	0.00	N
	ATOM	832	CA	GLY	A	60160.266	-7.934	-2.068	1.00	0.00	C
	ATOM	833	C	GLY	A	60159.640	-6.615	-1.658	1.00	0.00	C
	ATOM	834	O	GLY	A	60159.930	-5.573	-2.248	1.00	0.00	O
	ATOM	835	H	GLY	A	60160.933	-8.658	-0.194	1.00	0.00	H

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	ATOM	836	1HA	GLY A	60161.257	-7.746	-2.453	1.00	0.00	H
	ATOM	837	2HA	GLY A	60159.665	-8.377	-2.849	1.00	0.00	H
	ATOM	838	N	CYS A	61158.781	-6.658	-0.646	1.00	0.00	N
	ATOM	839	CA	CYS A	61158.113	-5.458	-0.159	1.00	0.00	C
5	ATOM	840	C	CYS A	61159.094	-4.548	0.573	1.00	0.00	C
	ATOM	841	O	CYS A	61160.188	-4.971	0.946	1.00	0.00	O
	ATOM	842	CB	CYS A	61156.957	-5.833	0.770	1.00	0.00	C
	ATOM	843	SG	CYS A	61155.776	-6.994	0.047	1.00	0.00	S
	ATOM	844	H	CYS A	61158.591	-7.518	-0.217	1.00	0.00	H
10	ATOM	845	HA	CYS A	61157.718	-4.928	-1.013	1.00	0.00	H
	ATOM	846	1HB	CYS A	61157.357	-6.289	1.665	1.00	0.00	H
	ATOM	847	2HB	CYS A	61156.416	-4.937	1.040	1.00	0.00	H
	ATOM	848	HG	CYS A	61156.044	-7.882	0.292	1.00	0.00	H
	ATOM	849	N	THR A	62158.695	-3.297	0.777	1.00	0.00	N
15	ATOM	850	CA	THR A	62159.539	-2.327	1.465	1.00	0.00	C
	ATOM	851	C	THR A	62159.139	-2.201	2.932	1.00	0.00	C
	ATOM	852	O	THR A	62158.254	-2.912	3.407	1.00	0.00	O
	ATOM	853	CB	THR A	62159.447	-0.963	0.780	1.00	0.00	C
	ATOM	854	OG1	THR A	62158.176	-0.787	0.179	1.00	0.00	O
20	ATOM	855	CG2	THR A	62160.493	-0.761	-0.297	1.00	0.00	C
	ATOM	856	H	THR A	62157.811	-3.019	0.456	1.00	0.00	H
	ATOM	857	HA	THR A	62160.558	-2.679	1.411	1.00	0.00	H
	ATOM	858	HB	THR A	62159.582	-0.189	1.521	1.00	0.00	H
	ATOM	859	HG1	THR A	62157.510	-0.686	0.864	1.00	0.00	H
25	ATOM	860	1HG2	THR A	62160.029	-0.340	-1.175	1.00	0.00	H
	ATOM	861	2HG2	THR A	62160.940	-1.712	-0.546	1.00	0.00	H
	ATOM	862	3HG2	THR A	62161.257	-0.089	0.066	1.00	0.00	H
	ATOM	863	N	ASP A	63159.797	-1.291	3.642	1.00	0.00	N
	ATOM	864	CA	ASP A	63159.510	-1.071	5.055	1.00	0.00	C

	ATOM	865	C	ASP A	63158.823	0.274	5.267	1.00	0.00	C
	ATOM	866	O	ASP A	63158.994	0.913	6.306	1.00	0.00	O
	ATOM	867	CB	ASP A	63160.800	-1.132	5.874	1.00	0.00	C
	ATOM	868	CG	ASP A	63161.816	-0.098	5.431	1.00	0.00	C
5	ATOM	869	OD1	ASP A	63162.969	-0.483	5.143	1.00	0.00	O
	ATOM	870	OD2	ASP A	63161.459	1.098	5.371	1.00	0.00	O
	ATOM	871	H	ASP A	63160.492	-0.755	3.207	1.00	0.00	H
	ATOM	872	HA	ASP A	63158.847	-1.857	5.385	1.00	0.00	H
	ATOM	873	1HB	ASP A	63160.568	-0.958	6.914	1.00	0.00	H
10	ATOM	874	2HB	ASP A	63161.241	-2.113	5.768	1.00	0.00	H
	ATOM	875	N	GLY A	64158.045	0.698	4.277	1.00	0.00	N
	ATOM	876	CA	GLY A	64157.344	1.966	4.375	1.00	0.00	C
	ATOM	877	C	GLY A	64158.028	3.069	3.593	1.00	0.00	C
	ATOM	878	O	GLY A	64158.120	4.204	4.059	1.00	0.00	O
15	ATOM	879	H	GLY A	64157.946	0.148	3.473	1.00	0.00	H
	ATOM	880	1HA	GLY A	64156.341	1.839	3.997	1.00	0.00	H
	ATOM	881	2HA	GLY A	64157.292	2.255	5.414	1.00	0.00	H
	ATOM	882	N	THR A	65158.508	2.736	2.400	1.00	0.00	N
	ATOM	883	CA	THR A	65159.188	3.707	1.550	1.00	0.00	C
20	ATOM	884	C	THR A	65158.823	3.496	0.083	1.00	0.00	C
	ATOM	885	O	THR A	65158.776	2.365	-0.399	1.00	0.00	O
	ATOM	886	CB	THR A	65160.703	3.602	1.730	1.00	0.00	C
	ATOM	887	OG1	THR A	65161.154	2.295	1.424	1.00	0.00	O
	ATOM	888	CG2	THR A	65161.162	3.928	3.135	1.00	0.00	C
25	ATOM	889	H	THR A	65158.403	1.814	2.083	1.00	0.00	H
	ATOM	890	HA	THR A	65158.865	4.692	1.850	1.00	0.00	H
	ATOM	891	HB	THR A	65161.184	4.295	1.056	1.00	0.00	H
	ATOM	892	HG1	THR A	65160.864	2.054	0.541	1.00	0.00	H
	ATOM	893	1HG2	THR A	65160.333	4.326	3.701	1.00	0.00	H

	ATOM	894	2HG2	THR	A	65161.954	4.661	3.094	1.00	0.00	H
	ATOM	895	3HG2	THR	A	65161.526	3.031	3.613	1.00	0.00	H
	ATOM	896	N	PHE	A	66158.565	4.594	-0.621	1.00	0.00	N
	ATOM	897	CA	PHE	A	66158.205	4.530	-2.032	1.00	0.00	C
5	ATOM	898	C	PHE	A	66159.340	5.050	-2.907	1.00	0.00	C
	ATOM	899	O	PHE	A	66159.609	6.250	-2.942	1.00	0.00	O
	ATOM	900	CB	PHE	A	66156.933	5.338	-2.293	1.00	0.00	C
	ATOM	901	CG	PHE	A	66156.226	4.951	-3.560	1.00	0.00	C
	ATOM	902	CD1	PHE	A	66155.795	3.648	-3.758	1.00	0.00	C
10	ATOM	903	CD2	PHE	A	66155.992	5.888	-4.553	1.00	0.00	C
	ATOM	904	CE1	PHE	A	66155.145	3.289	-4.923	1.00	0.00	C
	ATOM	905	CE2	PHE	A	66155.343	5.534	-5.721	1.00	0.00	C
	ATOM	906	CZ	PHE	A	66154.919	4.232	-5.906	1.00	0.00	C
	ATOM	907	H	PHE	A	66158.618	5.468	-0.181	1.00	0.00	H
15	ATOM	908	HA	PHE	A	66158.020	3.494	-2.280	1.00	0.00	H
	ATOM	909	1HB	PHE	A	66156.247	5.191	-1.472	1.00	0.00	H
	ATOM	910	2HB	PHE	A	66157.188	6.385	-2.360	1.00	0.00	H
	ATOM	911	HD1	PHE	A	66155.971	2.909	-2.990	1.00	0.00	H
	ATOM	912	HD2	PHE	A	66156.324	6.906	-4.409	1.00	0.00	H
20	ATOM	913	HE1	PHE	A	66154.815	2.270	-5.065	1.00	0.00	H
	ATOM	914	HE2	PHE	A	66155.167	6.273	-6.487	1.00	0.00	H
	ATOM	915	HZ	PHE	A	66154.411	3.953	-6.818	1.00	0.00	H
	ATOM	916	N	ARG	A	67160.001	4.139	-3.614	1.00	0.00	N
	ATOM	917	CA	ARG	A	67161.107	4.506	-4.490	1.00	0.00	C
25	ATOM	918	C	ARG	A	67162.211	5.212	-3.708	1.00	0.00	C
	ATOM	919	O	ARG	A	67162.933	6.048	-4.251	1.00	0.00	O
	ATOM	920	CB	ARG	A	67160.612	5.408	-5.622	1.00	0.00	C
	ATOM	921	CG	ARG	A	67159.489	4.794	-6.441	1.00	0.00	C
	ATOM	922	CD	ARG	A	67158.923	5.788	-7.443	1.00	0.00	C

	ATOM	923	NE	ARG A	67157.777	5.245	-8.167	1.00	0.00	N
	ATOM	924	CZ	ARG A	67157.880	4.402	-9.192	1.00	0.00	C
	ATOM	925	NH1	ARG A	67159.073	4.005	-9.618	1.00	0.00	N
	ATOM	926	NH2	ARG A	67156.787	3.955	-9.795	1.00	0.00	N
5	ATOM	927	H	ARG A	67159.739	3.197	-3.544	1.00	0.00	H
	ATOM	928	HA	ARG A	67161.509	3.598	-4.915	1.00	0.00	H
	ATOM	929	1HB	ARG A	67160.253	6.334	-5.197	1.00	0.00	H
	ATOM	930	2HB	ARG A	67161.437	5.622	-6.285	1.00	0.00	H
	ATOM	931	1HG	ARG A	67159.873	3.939	-6.977	1.00	0.00	H
10	ATOM	932	2HG	ARG A	67158.699	4.480	-5.775	1.00	0.00	H
	ATOM	933	1HD	ARG A	67158.613	6.677	-6.912	1.00	0.00	H
	ATOM	934	2HD	ARG A	67159.697	6.046	-8.152	1.00	0.00	H
	ATOM	935	HE	ARG A	67156.884	5.521	-7.874	1.00	0.00	H
	ATOM	936	1HH1	ARG A	67159.902	4.339	-9.169	1.00	0.00	H
15	ATOM	937	2HH1	ARG A	67159.143	3.372	-10.389	1.00	0.00	H
	ATOM	938	1HH2	ARG A	67155.885	4.251	-9.479	1.00	0.00	H
	ATOM	939	2HH2	ARG A	67156.864	3.323	-10.566	1.00	0.00	H
	ATOM	940	N	GLY A	68162.335	4.871	-2.429	1.00	0.00	N
	ATOM	941	CA	GLY A	68163.353	5.483	-1.595	1.00	0.00	C
20	ATOM	942	C	GLY A	68162.794	6.570	-0.696	1.00	0.00	C
	ATOM	943	O	GLY A	68163.408	6.925	0.310	1.00	0.00	O
	ATOM	944	H	GLY A	68161.732	4.199	-2.049	1.00	0.00	H
	ATOM	945	1HA	GLY A	68163.803	4.719	-0.979	1.00	0.00	H
	ATOM	946	2HA	GLY A	68164.112	5.912	-2.231	1.00	0.00	H
25	ATOM	947	N	THR A	69161.630	7.102	-1.058	1.00	0.00	N
	ATOM	948	CA	THR A	69160.995	8.154	-0.275	1.00	0.00	C
	ATOM	949	C	THR A	69160.179	7.565	0.871	1.00	0.00	C
	ATOM	950	O	THR A	69159.128	6.961	0.651	1.00	0.00	O
	ATOM	951	CB	THR A	69160.098	9.013	-1.167	1.00	0.00	C

	ATOM	952	OG1	THR	A	69160.773	9.370	-2.361	1.00	0.00	O
	ATOM	953	CG2	THR	A	69159.637	10.290	-0.501	1.00	0.00	C
	ATOM	954	H	THR	A	69161.188	6.779	-1.870	1.00	0.00	H
	ATOM	955	HA	THR	A	69161.776	8.776	0.139	1.00	0.00	H
5	ATOM	956	HB	THR	A	69159.220	8.442	-1.432	1.00	0.00	H
	ATOM	957	HG1	THR	A	69161.532	9.917	-2.148	1.00	0.00	H
	ATOM	958	1HG2	THR	A	69159.314	10.994	-1.255	1.00	0.00	H
	ATOM	959	2HG2	THR	A	69160.453	10.717	0.064	1.00	0.00	H
	ATOM	960	3HG2	THR	A	69158.814	10.073	0.164	1.00	0.00	H
10	ATOM	961	N	ARG	A	70160.668	7.743	2.093	1.00	0.00	N
	ATOM	962	CA	ARG	A	70159.984	7.230	3.273	1.00	0.00	C
	ATOM	963	C	ARG	A	70158.798	8.116	3.643	1.00	0.00	C
	ATOM	964	O	ARG	A	70158.936	9.332	3.770	1.00	0.00	O
	ATOM	965	CB	ARG	A	70160.953	7.139	4.452	1.00	0.00	C
15	ATOM	966	CG	ARG	A	70160.326	6.570	5.714	1.00	0.00	C
	ATOM	967	CD	ARG	A	70160.985	7.127	6.965	1.00	0.00	C
	ATOM	968	NE	ARG	A	70162.129	6.321	7.387	1.00	0.00	N
	ATOM	969	CZ	ARG	A	70162.855	6.575	8.472	1.00	0.00	C
	ATOM	970	NH1	ARG	A	70162.559	7.610	9.250	1.00	0.00	N
20	ATOM	971	NH2	ARG	A	70163.880	5.793	8.782	1.00	0.00	N
	ATOM	972	H	ARG	A	70161.509	8.234	2.205	1.00	0.00	H
	ATOM	973	HA	ARG	A	70159.619	6.241	3.041	1.00	0.00	H
	ATOM	974	1HB	ARG	A	70161.783	6.507	4.174	1.00	0.00	H
	ATOM	975	2HB	ARG	A	70161.325	8.128	4.676	1.00	0.00	H
25	ATOM	976	1HG	ARG	A	70159.277	6.825	5.730	1.00	0.00	H
	ATOM	977	2HG	ARG	A	70160.437	5.495	5.708	1.00	0.00	H
	ATOM	978	1HD	ARG	A	70161.321	8.133	6.762	1.00	0.00	H
	ATOM	979	2HD	ARG	A	70160.257	7.147	7.763	1.00	0.00	H
	ATOM	980	HE	ARG	A	70162.369	5.551	6.830	1.00	0.00	H

	ATOM	981	1HH1	ARG	A	70161.788	8.203	9.022	1.00	0.00	H
	ATOM	982	2HH1	ARG	A	70163.108	7.795	10.066	1.00	0.00	H
	ATOM	983	1HH2	ARG	A	70164.106	5.012	8.201	1.00	0.00	H
	ATOM	984	2HH2	ARG	A	70164.426	5.984	9.599	1.00	0.00	H
5	ATOM	985	N	TYR	A	71157.633	7.498	3.811	1.00	0.00	N
	ATOM	986	CA	TYR	A	71156.424	8.231	4.165	1.00	0.00	C
	ATOM	987	C	TYR	A	71155.976	7.891	5.583	1.00	0.00	C
	ATOM	988	O	TYR	A	71155.657	8.779	6.373	1.00	0.00	O
	ATOM	989	CB	TYR	A	71155.302	7.914	3.175	1.00	0.00	C
10	ATOM	990	CG	TYR	A	71155.508	8.530	1.808	1.00	0.00	C
	ATOM	991	CD1	TYR	A	71155.560	9.908	1.648	1.00	0.00	C
	ATOM	992	CD2	TYR	A	71155.651	7.731	0.681	1.00	0.00	C
	ATOM	993	CE1	TYR	A	71155.748	10.475	0.401	1.00	0.00	C
	ATOM	994	CE2	TYR	A	71155.840	8.290	-0.569	1.00	0.00	C
15	ATOM	995	CZ	TYR	A	71155.888	9.661	-0.703	1.00	0.00	C
	ATOM	996	OH	TYR	A	71156.075	10.221	-1.946	1.00	0.00	O
	ATOM	997	H	TYR	A	71157.587	6.526	3.695	1.00	0.00	H
	ATOM	998	HA	TYR	A	71156.648	9.286	4.115	1.00	0.00	H
	ATOM	999	1HB	TYR	A	71155.234	6.844	3.048	1.00	0.00	H
20	ATOM	1000	2HB	TYR	A	71154.368	8.285	3.569	1.00	0.00	H
	ATOM	1001	HD1	TYR	A	71155.450	10.542	2.515	1.00	0.00	H
	ATOM	1002	HD2	TYR	A	71155.613	6.657	0.788	1.00	0.00	H
	ATOM	1003	HE1	TYR	A	71155.785	11.549	0.297	1.00	0.00	H
	ATOM	1004	HE2	TYR	A	71155.950	7.654	-1.435	1.00	0.00	H
25	ATOM	1005	HH	TYR	A	71155.283	10.101	-2.476	1.00	0.00	H
	ATOM	1006	N	PHE	A	72155.956	6.600	5.898	1.00	0.00	N
	ATOM	1007	CA	PHE	A	72155.548	6.144	7.222	1.00	0.00	C
	ATOM	1008	C	PHE	A	72156.530	5.113	7.768	1.00	0.00	C
	ATOM	1009	O	PHE	A	72157.388	4.612	7.042	1.00	0.00	O



	ATOM	1010	CB	PHE	A	72154.141	5.546	7.167	1.00	0.00	C
	ATOM	1011	CG	PHE	A	72153.971	4.509	6.093	1.00	0.00	C
	ATOM	1012	CD1	PHE	A	72153.819	4.884	4.768	1.00	0.00	C
	ATOM	1013	CD2	PHE	A	72153.963	3.161	6.410	1.00	0.00	C
5	ATOM	1014	CE1	PHE	A	72153.663	3.932	3.779	1.00	0.00	C
	ATOM	1015	CE2	PHE	A	72153.806	2.204	5.425	1.00	0.00	C
	ATOM	1016	CZ	PHE	A	72153.657	2.590	4.107	1.00	0.00	C
	ATOM	1017	H	PHE	A	72156.222	5.940	5.226	1.00	0.00	H
	ATOM	1018	HA	PHE	A	72155.540	7.000	7.880	1.00	0.00	H
10	ATOM	1019	1HB	PHE	A	72153.917	5.082	8.115	1.00	0.00	H
	ATOM	1020	2HB	PHE	A	72153.428	6.338	6.982	1.00	0.00	H
	ATOM	1021	HD1	PHE	A	72153.824	5.932	4.509	1.00	0.00	H
	ATOM	1022	HD2	PHE	A	72154.080	2.857	7.440	1.00	0.00	H
	ATOM	1023	HE1	PHE	A	72153.545	4.237	2.749	1.00	0.00	H
15	ATOM	1024	HE2	PHE	A	72153.803	1.155	5.685	1.00	0.00	H
	ATOM	1025	HZ	PHE	A	72153.534	1.844	3.335	1.00	0.00	H
	ATOM	1026	N	THR	A	73156.397	4.800	9.053	1.00	0.00	N
	ATOM	1027	CA	THR	A	73157.272	3.828	9.698	1.00	0.00	C
	ATOM	1028	C	THR	A	73156.519	2.538	10.005	1.00	0.00	C
20	ATOM	1029	O	THR	A	73155.738	2.473	10.954	1.00	0.00	O
	ATOM	1030	CB	THR	A	73157.854	4.411	10.986	1.00	0.00	C
	ATOM	1031	OG1	THR	A	73158.089	5.800	10.847	1.00	0.00	O
	ATOM	1032	CG2	THR	A	73159.160	3.764	11.400	1.00	0.00	C
	ATOM	1033	H	THR	A	73155.693	5.232	9.581	1.00	0.00	H
25	ATOM	1034	HA	THR	A	73158.080	3.606	9.016	1.00	0.00	H
	ATOM	1035	HB	THR	A	73157.145	4.265	11.788	1.00	0.00	H
	ATOM	1036	HG1	THR	A	73158.193	6.197	11.715	1.00	0.00	H
	ATOM	1037	1HG2	THR	A	73159.299	3.884	12.464	1.00	0.00	H
	ATOM	1038	2HG2	THR	A	73159.977	4.235	10.874	1.00	0.00	H

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	ATOM	1039	3HG2	THR	A	73159.133	2.712	11.155	1.00	0.00	H
	ATOM	1040	N	CYS	A	74156.759	1.511	9.195	1.00	0.00	N
	ATOM	1041	CA	CYS	A	74156.104	0.222	9.380	1.00	0.00	C
	ATOM	1042	C	CYS	A	74157.120	-0.916	9.346	1.00	0.00	C
5	ATOM	1043	O	CYS	A	74158.299	-0.699	9.070	1.00	0.00	O
	ATOM	1044	CB	CYS	A	74155.043	0.005	8.299	1.00	0.00	C
	ATOM	1045	SG	CYS	A	74153.400	0.615	8.745	1.00	0.00	S
	ATOM	1046	H	CYS	A	74157.392	1.624	8.455	1.00	0.00	H
	ATOM	1047	HA	CYS	A	74155.623	0.231	10.346	1.00	0.00	H
10	ATOM	1048	1HB	CYS	A	74155.349	0.516	7.398	1.00	0.00	H
	ATOM	1049	2HB	CYS	A	74154.958	-1.052	8.095	1.00	0.00	H
	ATOM	1050	HG	CYS	A	74153.461	1.565	8.873	1.00	0.00	H
	ATOM	1051	N	ALA	A	75156.654	-2.127	9.629	1.00	0.00	N
	ATOM	1052	CA	ALA	A	75157.521	-3.299	9.631	1.00	0.00	C
15	ATOM	1053	C	ALA	A	75158.160	-3.510	8.263	1.00	0.00	C
	ATOM	1054	O	ALA	A	75157.646	-3.043	7.247	1.00	0.00	O
	ATOM	1055	CB	ALA	A	75156.737	-4.534	10.046	1.00	0.00	C
	ATOM	1056	H	ALA	A	75155.703	-2.236	9.841	1.00	0.00	H
	ATOM	1057	HA	ALA	A	75158.301	-3.134	10.359	1.00	0.00	H
20	ATOM	1058	1HB	ALA	A	75157.146	-5.403	9.551	1.00	0.00	H
	ATOM	1059	2HB	ALA	A	75155.701	-4.415	9.767	1.00	0.00	H
	ATOM	1060	3HB	ALA	A	75156.810	-4.663	11.116	1.00	0.00	H
	ATOM	1061	N	LEU	A	76159.285	-4.219	8.243	1.00	0.00	N
	ATOM	1062	CA	LEU	A	76159.994	-4.493	6.999	1.00	0.00	C
25	ATOM	1063	C	LEU	A	76159.283	-5.576	6.194	1.00	0.00	C
	ATOM	1064	O	LEU	A	76158.703	-6.503	6.759	1.00	0.00	O
	ATOM	1065	CB	LEU	A	76161.433	-4.921	7.291	1.00	0.00	C
	ATOM	1066	CG	LEU	A	76162.351	-3.804	7.794	1.00	0.00	C
	ATOM	1067	CD1	LEU	A	76162.435	-3.826	9.312	1.00	0.00	C

	ATOM	1068	CD2	LEU	A	76163.736	-3.934	7.179	1.00	0.00	C
	ATOM	1069	H	LEU	A	76159.645	-4.567	9.085	1.00	0.00	H
	ATOM	1070	HA	LEU	A	76160.009	-3.583	6.419	1.00	0.00	H
	ATOM	1071	1HB	LEU	A	76161.410	-5.702	8.036	1.00	0.00	H
5	ATOM	1072	2HB	LEU	A	76161.858	-5.324	6.383	1.00	0.00	H
	ATOM	1073	HG	LEU	A	76161.940	-2.849	7.497	1.00	0.00	H
	ATOM	1074	1HD1	LEU	A	76162.427	-4.848	9.658	1.00	0.00	H
	ATOM	1075	2HD1	LEU	A	76161.591	-3.298	9.728	1.00	0.00	H
	ATOM	1076	3HD1	LEU	A	76163.350	-3.346	9.628	1.00	0.00	H
10	ATOM	1077	1HD2	LEU	A	76163.645	-4.063	6.111	1.00	0.00	H
	ATOM	1078	2HD2	LEU	A	76164.240	-4.790	7.603	1.00	0.00	H
	ATOM	1079	3HD2	LEU	A	76164.307	-3.041	7.386	1.00	0.00	H
	ATOM	1080	N	LYS	A	77159.332	-5.452	4.872	1.00	0.00	N
	ATOM	1081	CA	LYS	A	77158.692	-6.421	3.989	1.00	0.00	C
15	ATOM	1082	C	LYS	A	77157.190	-6.481	4.245	1.00	0.00	C
	ATOM	1083	O	LYS	A	77156.565	-7.528	4.083	1.00	0.00	O
	ATOM	1084	CB	LYS	A	77159.310	-7.807	4.186	1.00	0.00	C
	ATOM	1085	CG	LYS	A	77160.806	-7.849	3.921	1.00	0.00	C
	ATOM	1086	CD	LYS	A	77161.117	-7.641	2.448	1.00	0.00	C
20	ATOM	1087	CE	LYS	A	77162.396	-6.843	2.255	1.00	0.00	C
	ATOM	1088	NZ	LYS	A	77163.575	-7.532	2.849	1.00	0.00	N
	ATOM	1089	H	LYS	A	77159.809	-4.692	4.480	1.00	0.00	H
	ATOM	1090	HA	LYS	A	77158.860	-6.103	2.971	1.00	0.00	H
	ATOM	1091	1HB	LYS	A	77159.138	-8.124	5.203	1.00	0.00	H
25	ATOM	1092	2HB	LYS	A	77158.828	-8.502	3.515	1.00	0.00	H
	ATOM	1093	1HG	LYS	A	77161.285	-7.069	4.493	1.00	0.00	H
	ATOM	1094	2HG	LYS	A	77161.190	-8.811	4.228	1.00	0.00	H
	ATOM	1095	1HD	LYS	A	77161.231	-8.604	1.973	1.00	0.00	H
	ATOM	1096	2HD	LYS	A	77160.298	-7.107	1.989	1.00	0.00	H

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	ATOM	1097	1HE	LYS A	77162.566	-6.708	1.197	1.00	0.00	H
	ATOM	1098	2HE	LYS A	77162.279	-5.879	2.726	1.00	0.00	H
	ATOM	1099	1HZ	LYS A	77163.556	-8.544	2.608	1.00	0.00	H
	ATOM	1100	2HZ	LYS A	77163.563	-7.433	3.884	1.00	0.00	H
5	ATOM	1101	3HZ	LYS A	77164.455	-7.116	2.482	1.00	0.00	H
	ATOM	1102	N	LYS A	78156.617	-5.350	4.644	1.00	0.00	N
	ATOM	1103	CA	LYS A	78155.188	-5.274	4.922	1.00	0.00	C
	ATOM	1104	C	LYS A	78154.619	-3.926	4.490	1.00	0.00	C
	ATOM	1105	O	LYS A	78153.788	-3.339	5.184	1.00	0.00	O
10	ATOM	1106	CB	LYS A	78154.924	-5.500	6.412	1.00	0.00	C
	ATOM	1107	CG	LYS A	78155.426	-6.841	6.922	1.00	0.00	C
	ATOM	1108	CD	LYS A	78155.126	-7.022	8.401	1.00	0.00	C
	ATOM	1109	CE	LYS A	78153.865	-7.842	8.618	1.00	0.00	C
	ATOM	1110	NZ	LYS A	78153.075	-7.350	9.780	1.00	0.00	N
15	ATOM	1111	H	LYS A	78157.169	-4.548	4.754	1.00	0.00	H
	ATOM	1112	HA	LYS A	78154.699	-6.054	4.357	1.00	0.00	H
	ATOM	1113	1HB	LYS A	78155.414	-4.719	6.974	1.00	0.00	H
	ATOM	1114	2HB	LYS A	78153.860	-5.447	6.589	1.00	0.00	H
	ATOM	1115	1HG	LYS A	78154.941	-7.631	6.368	1.00	0.00	H
20	ATOM	1116	2HG	LYS A	78156.494	-6.896	6.771	1.00	0.00	H
	ATOM	1117	1HD	LYS A	78155.958	-7.528	8.868	1.00	0.00	H
	ATOM	1118	2HD	LYS A	78154.995	-6.049	8.853	1.00	0.00	H
	ATOM	1119	1HE	LYS A	78153.256	-7.784	7.728	1.00	0.00	H
	ATOM	1120	2HE	LYS A	78154.146	-8.870	8.794	1.00	0.00	H
25	ATOM	1121	1HZ	LYS A	78153.198	-6.322	9.886	1.00	0.00	H
	ATOM	1122	2HZ	LYS A	78153.391	-7.818	10.652	1.00	0.00	H
	ATOM	1123	3HZ	LYS A	78152.065	-7.553	9.636	1.00	0.00	H
	ATOM	1124	N	ALA A	79155.073	-3.438	3.340	1.00	0.00	N
	ATOM	1125	CA	ALA A	79154.611	-2.159	2.815	1.00	0.00	C